42X3030D LCD TV

SAME AS

37X3030D LCD TV

TOSHIBA

SERVICE MANUAL

LCD Color Television

37X3030D

Ver. 1.02

This model is classified as a green product (*1), as indicated by the underlined serial number. This Service Manual describes replacement parts for the green product. When repairing this green product, use the part(s) described in this manual and lead-free solder (*2).

For (*1) and (*2), refer to **GREEN PRODUCT PROCUREMENT** and **LEAD-FREE SOLDER**.

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IMPORTANT NOTICE

WARNING:

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Toshiba shall not be liable for any damages, losses, expenses or costs, if any, incurred in connection with or as a result of use of any information or data provided herein.

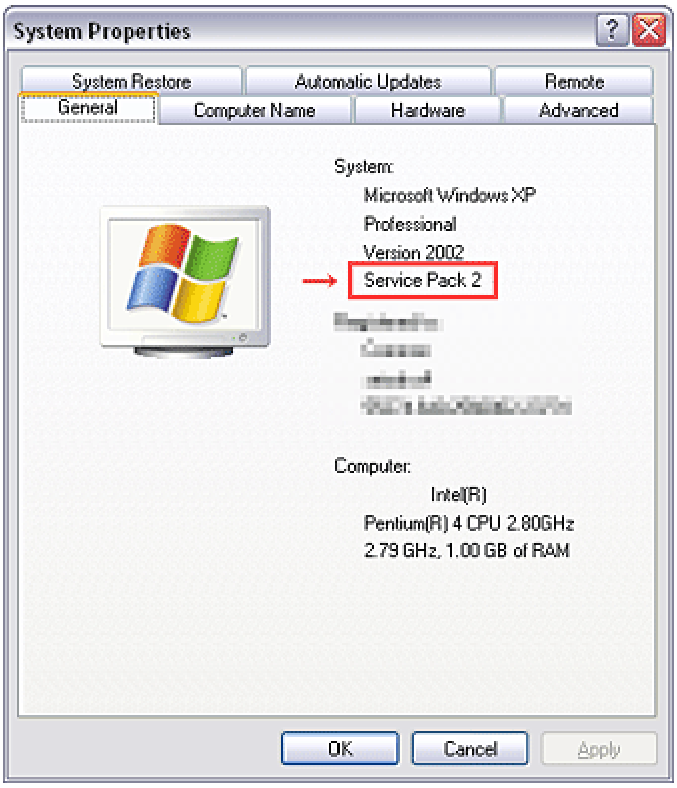
IMPORTANT NOTICE

User Guide

Autodesk® DWF™ Viewer is necessary to view drawings and to activate the functions of this system. Please download and install.

When **Windows XP SP2** is used, pop-up windows are limited by the enhanced security function and this sample may not work. In that case, perform the Internet Explorer setting using the following procedure to restore normal operation.

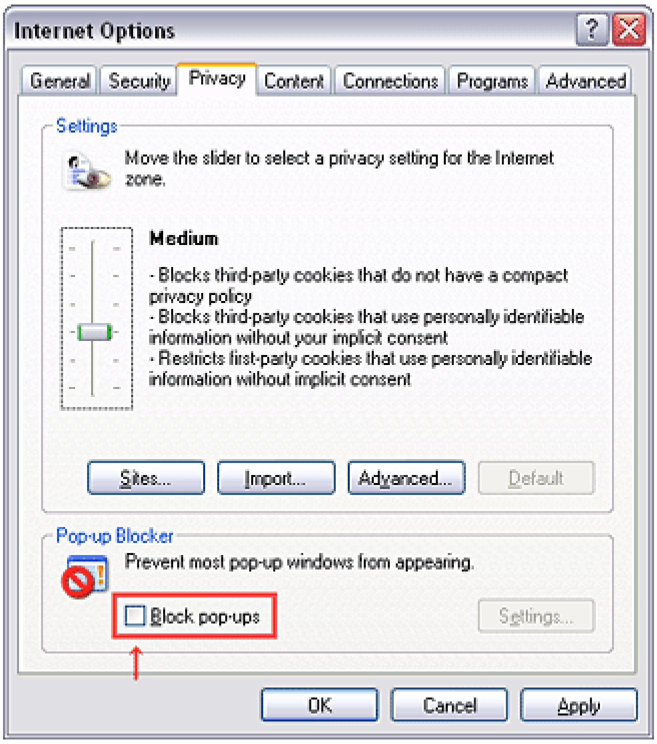
1. Windows version check
   [My Computer (right-click)] - [Properties]


System Properties
System Restore
Automatic Updates
Remote
General
Computer Name
Hardware
Advanced
OK
Cancel
Apply

System:
Microsoft Windows XP
Professional
Version 2002
Service Pack 2

Computer:
Intel(R)
Pentium(R) 4 CPU 2.80GHz
2.79 GHz, 1.00 GB of RAM

2. Internet Explorer setting
   [Tools] - [Internet Options]


Internet Options
General
Security
Privacy
Content
Connections
Programs
Advanced
Settings
Sites...
Import...
Advanced...
Default
Pop-up Blocker
Settings...
OK
Cancel
Apply

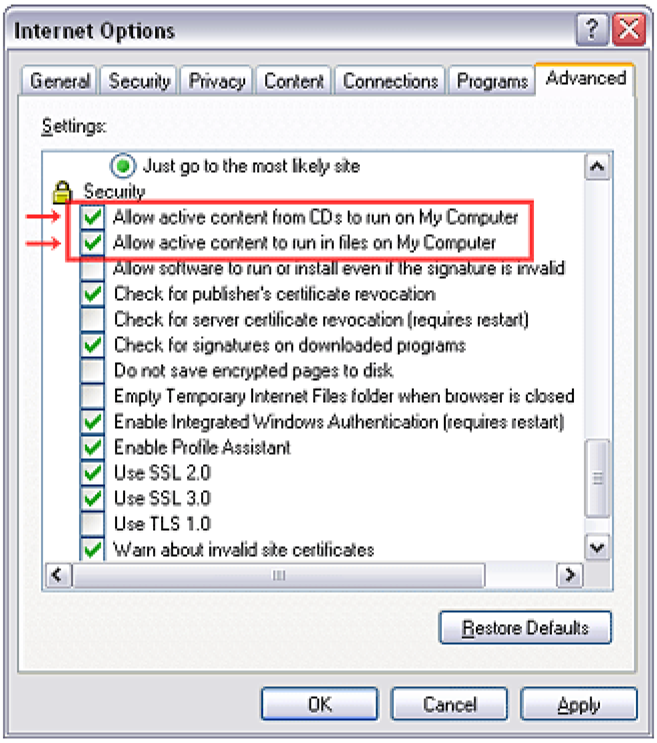
Move the slider to select a privacy setting for the Internet zone.

Medium

- Blocks third-party cookies that do not have a compact privacy policy
- Blocks third-party cookies that use personally identifiable information without your implicit consent
- Restricts first-party cookies that use personally identifiable information without implicit consent

Prevent most pop-up windows from appearing.

☐ Block pop-ups


Internet Options
General
Security
Privacy
Content
Connections
Programs
Advanced
Settings:
Restore Defaults
OK
Cancel
Apply

● Just go to the most likely site

Security

☑ Allow active content from CDs to run on My Computer
☑ Allow active content to run in files on My Computer
☐ Allow software to run or install even if the signature is invalid
☑ Check for publisher's certificate revocation
☐ Check for server certificate revocation (requires restart)
☑ Check for signatures on downloaded programs
☐ Do not save encrypted pages to disk
☐ Empty Temporary Internet Files folder when browser is closed
☑ Enable Integrated Windows Authentication (requires restart)
☑ Enable Profile Assistant
☑ Use SSL 2.0
☑ Use SSL 3.0
☐ Use TLS 1.0
☑ Warn about invalid site certificates

Operating Environment

PC : Pentium III or higher recommended

Monitor : 1024 x 768 or higher resolution recommended

Mouse : A mouse with wheel recommended

OS : Microsoft Windows 2000/XP

Browser : Microsoft Internet Explorer 6.0 or later

Drawing viewer : Autodesk DWF Viewer 6.0

* Use the software following respective license terms and conditions.

Note:

In case of using this service manual with network connection, allocate its folder to the client PCs as **network drive** to avoid any possible malfunction.

Or in case of accessing it through WEB site, the small pop-up window appears at the left bottom corner on the screen whenever searching the location links. This is not malfunction.

Functions Provided on Each Drawing Page

Parts Information Reference Function

When the character string of a part on the drawing is clicked, its information is popped up at the location. You can get any parts information immediately on the screen without referring to the maintenance parts list. **8**

Parts Search Function

You can search any part within the displayed drawing or within the whole schematic diagram/board view by specifying a location number. The pop-up window displayed by clicking a part's character string allows to search the part within the applicable schematic diagram, board view or spare parts list. **8**

A circle appears when the part is found, showing the part's location within the drawing. **8**

Signal Line/Connector Destination Display Function

When a name at the end of a signal line in a divided schematic diagram is clicked, the destination of the signal is searched and the display changes to the destination. Connecter destinations can also be searched in the same way. **8**

When two or more search results are provided, their drawing names are displayed, allowing you to choose a desired drawing to display. **8**

Layer Display Changing Function

When any of the color buttons on the toolbar is clicked, it can be selected to display desired layer in its color or not to display each layer. This allows you to see the pattern layer only by setting other layers to "non-display". **8**

PC Board View Pattern Highlighting Function

When a pattern on a board view is clicked, it is highlighted in green. This allows easy pattern tracing. **8**

Specified Area Printing Function

The Autodesk DWF Viewer enables to print the displayed drawing region as it is on a printer. It also allows to print a large-sized drawing in multiple pieces (tile printing). **8**

IMPORTANT NOTICE

A Known Malfunction

Autodesk® DWF™ Viewer version (Free software provided through WEB)

Use Autodesk DWF Viewer ver. 6.0.
Through WEB, ver. 6.5 has been released but with it, the linking function in this manual may not work properly.
If ver. 6.5 has been installed, uninstall it and reinstall ver. 6.0.

Autodesk® DWF Viewer FREE

To get ver. 6.0, click the icon, or contact to the nearest Toshiba Service Centre for further assistance.

Freezing windows opened (Cannot close the open windows)

This may happen occasionally.
In case of encountering this, follow the procedure below.

1. Press [Ctrl], [Alt] and [Delete] keys at the same time to engage windows security windows.

2. Then, choose TASK manager and Application tab, and select TOSHIBA SERVICE MANUAL-Microsoft Internet Explorer. **8**

3. Click TASK-end.

Main Window back forwarded

The real cause has not been found yet but with this condition, nothing disturbs the service manual operation.

Continue to use by operating the windows.

Precaution when opening the diagrams

While opening the diagrams, the menu in the left frame changes its color to GRAY. This is an indication that the viewer is processing.

With this condition, the menu indication color may stick to the GRAY color or Windows may freeze if clicking other menu.

To avoid such things, do not operate any others while menu turns GRAY color.

If entering this, re-open the service manual or refresh the left frame.

GREEN PRODUCT PROCUREMENT

The EC is actively promoting the WEEE & RoHS Directives that define standards for recycling and reuse of Waste Electrical and Electronic Equipment and for the Restriction of the use of certain Hazardous Substances. From July 1, 2006, the RoHS Directive will prohibit any marketing of new products containing the restricted substances.

Increasing attention is given to issues related to the global environmental. Toshiba Corporation recognizes environmental protection as a key management tasks, and is doing its utmost to enhance and improve the quality and scope of its environmental activities. In line with this, Toshiba proactively promotes Green Procurement, and seeks to purchase and use products, parts and materials that have low environmental impacts.

Green procurement of parts is not only confined to manufacture. The same green parts used in manufacture must also be used as replacement parts.

LEAD-FREE SOLDER

This product is manufactured using lead-free solder as a part of a movement within the consumer products industry at large to be environmentally responsible. Lead-free solder must be used in the servicing and repair of this product.

WARNING: This product is manufactured using lead free solder.
DO NOT USE LEAD BASED SOLDER TO REPAIR THIS PRODUCT!

The melting temperature of lead-free solder is higher than that of leaded solder by 86ºF to 104ºF (30ºC to 40ºC). Use of a soldering iron designed for lead-based solders to repair product made with lead-free solder may result in damage to the component and or PCB being soldered. Great care should be made to ensure high-quality soldering when servicing this product especially when soldering large components, through-hole pins, and on PCBs as the level of heat required to melt lead-free solder is high.

SAFETY INSTRUCTION

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

Safety Precaution

WARNING: SERVICING SHOULD NOT BE ATTEMPTED BY ANYONE UNFAMILIAR WITH THE NECESSARY PRECAUTIONS ON THIS RECEIVER. THE FOLLOWING ARE THE NECESSARY PRECAUTIONS TO BE OBSERVED BEFORE SERVICING THIS CHASSIS.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.

2. Always disconnect the power plug before any disassembling of the product. It may result in electrical shock.

3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network, etc.

4. Always keep tools, components of the product, etc away from the children, These items may cause injury to children.

5. Depending on the model, use an isolation transformer or wear suitable gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.

6. Always use the replacement parts specified for the particular model when making repairs. The parts used in products require special safety characteristics such as

inflammability, voltage resistance, etc. therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the ⚠ mark is indicated in the circuit diagram or parts list.

7. Parts mounting and routing dressing of wirings should be the same as that used originally. For safety purposes, insulating materials such as isolation tube or tape are sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wirings is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the manufactured wiring routes / dressings.

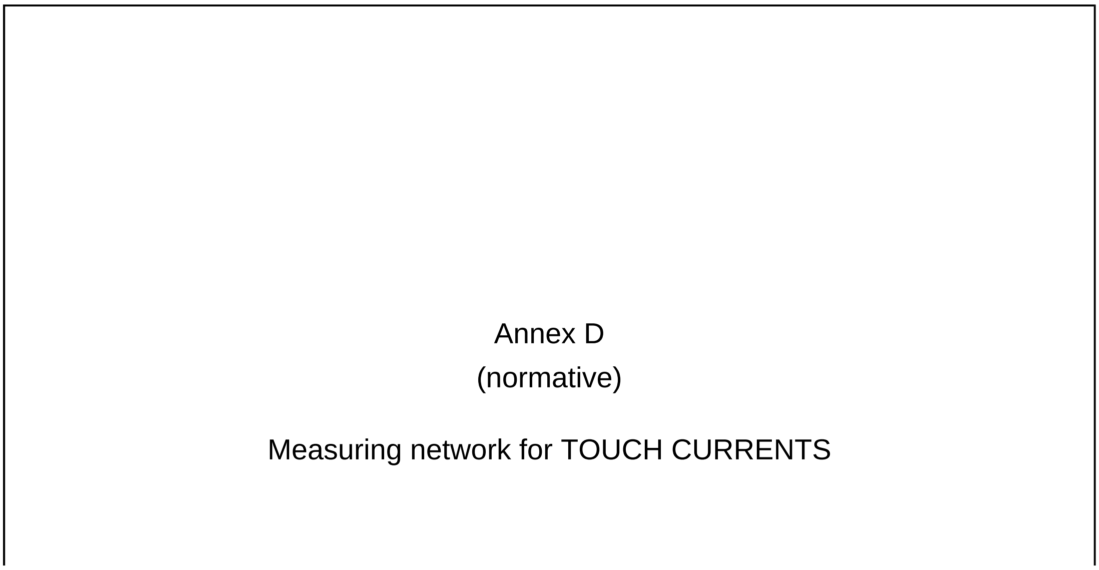
8. Always ensure that all internal wirings are in accordance before re-assembling the external casing after a repairing completed. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.

9. NEVER remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous.

10. Touch current check. (After completing the work, measure touch current to prevent an electric shock.)

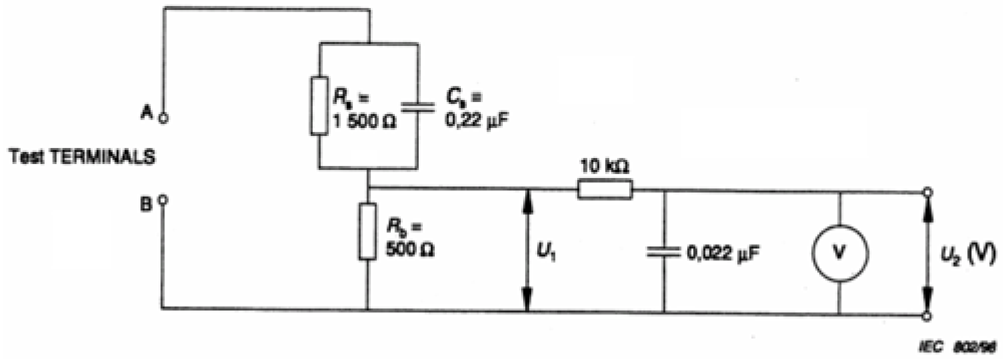
    - Plug the AC cord directly into the AC outlet. Do NOT use an isolation transformer for this check.

    - Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe.



Annex D
(normative)

Measuring network for TOUCH CURRENTS



Resistance values in orms (Ω).

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance : ≥ 1 MΩ
Input capacitance : ≤ 200 pF
Frequency range : 15 Hz to 1 MHz and d.c. respectively

Note: Appropriate measures should be taken to obtain the correct value in case of non sinusoidal waveforms.

The measuring instrument is calibrated by comparing the frequency factor of U_2 with the solid line in figure F.2 of IEC 60990 at various frequencies. A calibration curve is constructed showing the deviation of U_2 from the ideal curve as a function of frequency.

TOUCH CURRENT = U_2/500 (peak value).

U_1 U_2

The part or contact of a TERMINAL is not HAZARDOUS LIVE if:

a) The open-circuit voltage should not exceed 35 V (peak) a.c. or 60 V d.c. or, if a) is not met.
b) The measurement of the TOUCH CURRENT shall be carried out in accordance with IEC 60990, with the measuring network described in **Annex D** of this standard.

The TOUCH CURRENT expressed as voltages U_1 and U_2, does not exceed the following values:
- for a.c. : U_1 = 35 V (peak) and U_2 = 0.35 V (peak);
- for d.c. : U_1 = 1.0 V

Note: The limit values of U_2 = 0.35 V (peak) for a.c. and U_1 = 1.0 V for d.c. correspond to the values 0.7 mA (peak) a.c. and 2.0 mA d.c.

Product Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create electrical shock, fire, or other hazards.

SAFETY INSTRUCTION

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Safety Precaution

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1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.

2. Always disconnect the power plug before any disassembling of the product. It may result in electrical shock.

3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network, etc.

4. Always keep tools, components of the product, etc away from the children, These items may cause injury to children.

5. Depending on the model, use an isolation transformer or wear suitable gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.

6. Always use the replacement parts specified for the particular model when making repairs. The parts used in products require special safety characteristics such as

inflammability, voltage resistance, etc. therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the ⚠ mark is indicated in the circuit diagram or parts list.

7. Parts mounting and routing dressing of wirings should be the same as that used originally. For safety purposes, insulating materials such as isolation tube or tape are sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wirings is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the manufactured wiring routes / dressings.

8. Always ensure that all internal wirings are in accordance before re-assembling the external casing after a repairing completed. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.

9. NEVER remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous.

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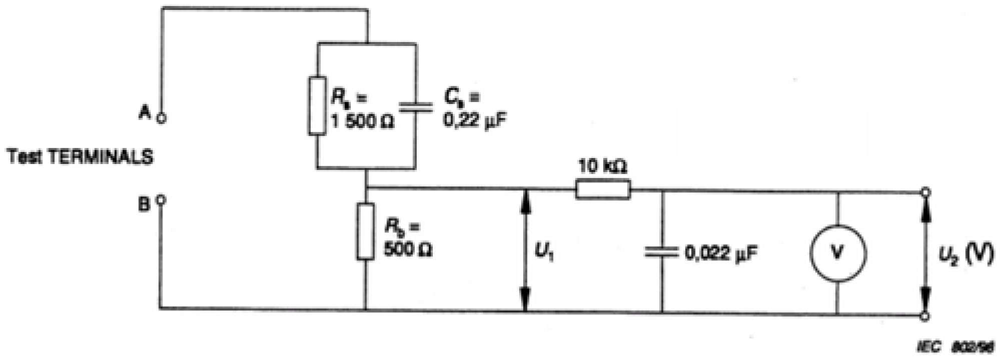
Annex D
(normative)

Measuring network for TOUCH CURRENTS



Resistance values in orms (Ω).

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance : $\geq$ 1 MΩ
Input capacitance : $\leq$ 200 pF
Frequency range : 15 Hz to 1 MHz and d.c. respectively

Note: Appropriate measures should be taken to obtain the correct value in case of non sinusoidal waveforms.

The measuring instrument is calibrated by comparing the frequency factor of U_2 with the solid line in figure F.2 of IEC 60990 at various frequencies. A calibration curve is constructed showing the deviation of U_2 from the ideal curve as a function of frequency.

TOUCH CURRENT = U_2/500 (peak value).

- The potential at any point (TOUCH CURRENT) expressed as voltage U_1 and U_2 does not exceed the following value:

The part or contact of a TERMINAL is not HAZARDOUS LIVE if:

a) The open-circuit voltage should not exceed 35 V (peak) a.c. or 60 V d.c. or, if a) is not met.
b) The measurement of the TOUCH CURRENT shall be carried out in accordance with IEC 60990, with the measuring network described in **Annex D** of this standard.

The TOUCH CURRENT expressed as voltages U_1 and U_2, does not exceed the following values:
- for a.c. : U_1 = 35 V (peak) and U_2 = 0.35 V (peak);
- for d.c. : U_1 = 1.0 V

Note: The limit values of U_2 = 0.35 V (peak) for a.c. and U_1 = 1.0 V for d.c. correspond to the values 0.7 mA (peak) a.c. and 2.0 mA d.c.

Product Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create electrical shock, fire, or other hazards.

SAFETY INSTRUCTION

Handling the LCD Module

Safety Precaution

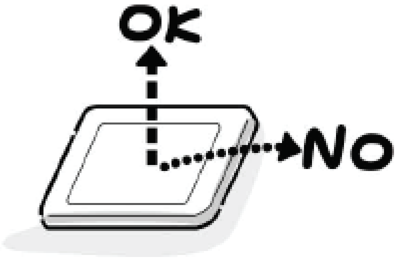
In the event that the screen is damaged or the liquid crystal (fluid) leaks, do not breathe in or drink this fluid.
Also, never touch this fluid. Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the eyes, immediately rinse the eyes thoroughly with running water.

Precautions for Handling the LCD Module

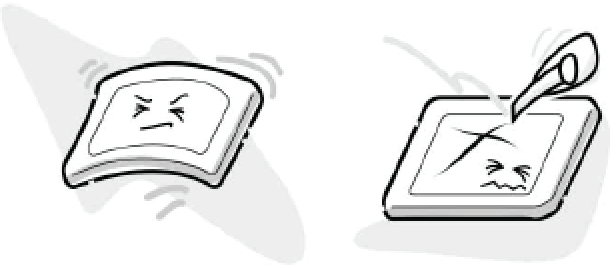
CAUTION: The metal edges of the LCD module are sharp, handle it with care.

The LCD module can easily be damaged during disassembly or reassembly; therefore, always observe the following precautions when handling the module.

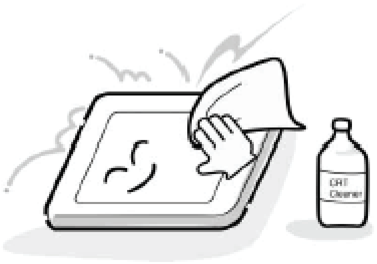
1. When attaching the LCD module to the LCD cover, position it appropriately and fasten at the position where the display can be viewed most conveniently.



2. Carefully align the holes at all four corners of the LCD module with the corresponding holes in the LCD cover and fasten with screws. Do not strongly push on the module because any impact can adversely affect the performance. Also use caution when handling the polarized screen because it can easily be damaged.



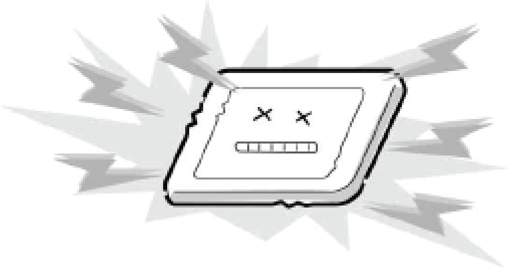
3. If the panel surface becomes soiled, wipe with cotton or a soft cloth. If this does not remove the soiling, breathe on the surface and then wipe again.
   If the panel surface is extremely solied, use a CRT cleaner as a cleaner. Wipe off the panel surface by drop the cleaner on the cloth. Do not drop the cleaner on the panel. Pay attention not to scratch the panel surface.



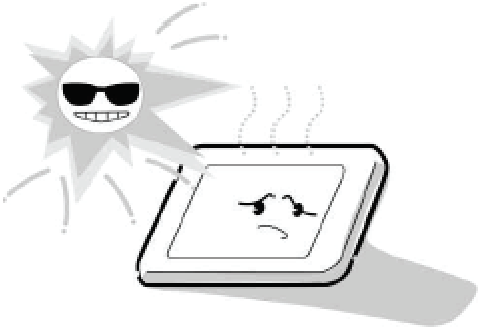
4. Leaving water or other fluids on the panel screen for an extended period of time can result in discoloration or stripes. Immediately remove any type of fluid from the screen.

5. Glass is used in the panel, so do not drop or strike with hard objects. Such actions can damage the panel.

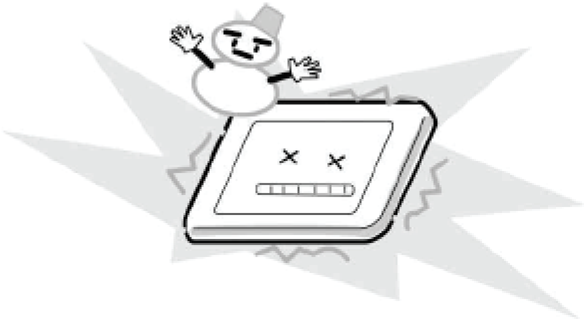
6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.

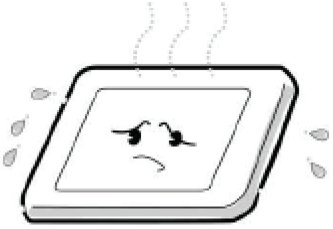


7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.

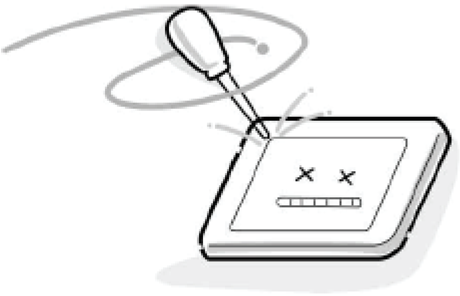


8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.

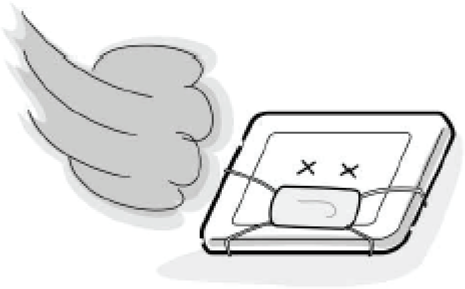


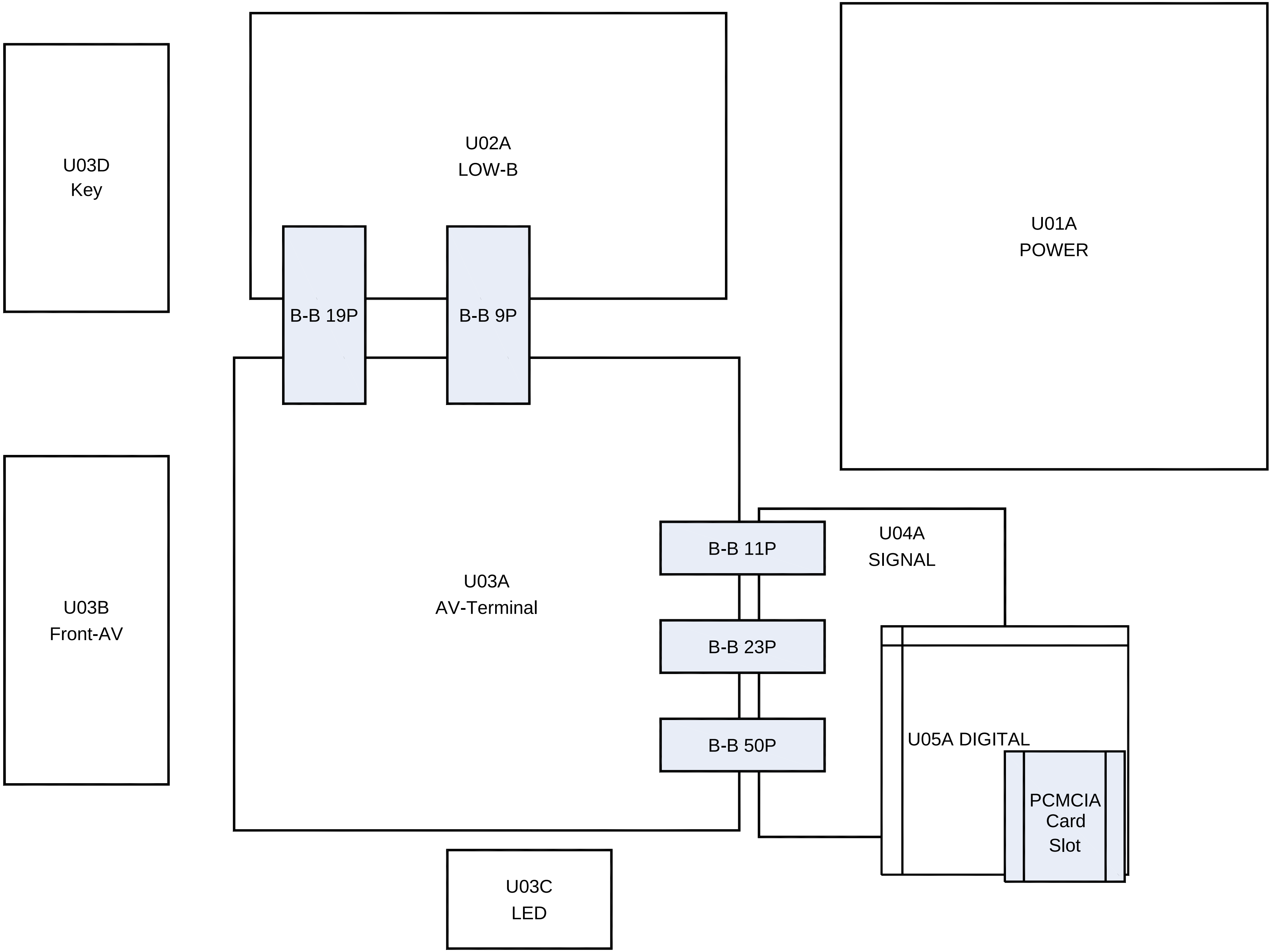


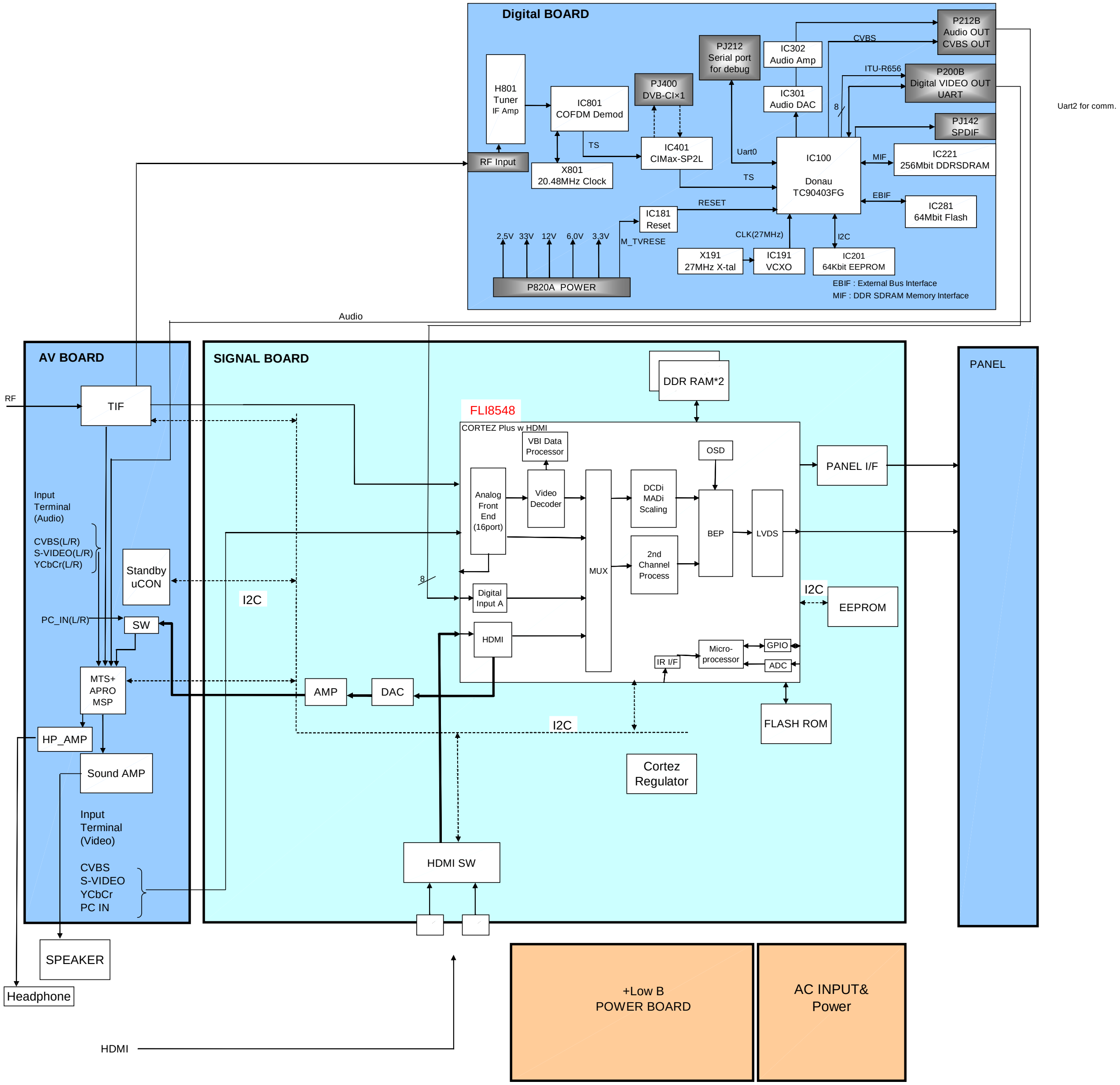
9. Do not disassemble the LCD module. Such actions could result in improper operation.



10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.




U03D
Key
U02A
LOW-B
U01A
POWER
B-B 19P
B-B 9P
U03B
Front-AV
U03A
AV-Terminal
B-B 11P
U04A
SIGNAL
B-B 23P
B-B 50P
U05A DIGITAL
PCMCIA
Card
Slot
U03C
LED


Digital BOARD
H801
Tuner
IF Amp
RF Input
IC801
COFDM Demod
X801
20.48MHz Clock
TS
PJ400
DVB-CI×1
IC401
CIMax-SP2L
PJ212
Serial port
for debug
Uart0
IC302
Audio Amp
IC301
Audio DAC
CVBS
P212B
Audio OUT
CVBS OUT
ITU-R656
8
P200B
Digital VIDEO OUT
UART
PJ142
SPDIF
IC100
Donau
TC90403FG
MIF
IC221
256Mbit DDRSDRAM
EBIF
IC281
64Mbit Flash
TS
RESET
IC181
Reset
2.5V
33V
12V
6.0V
3.3V
M_TVRESE
P820A POWER
CLK(27MHz)
X191
27MHz X-tal
IC191
VCXO
I2C
IC201
64Kbit EEPROM
EBIF : External Bus Interface
MIF : DDR SDRAM Memory Interface
Uart2 for comm.
Audio
AV BOARD
RF
TIF
Input
Terminal
(Audio)
CVBS(L/R)
S-VIDEO(L/R)
YCbCr(L/R)
Standby
uCON
PC_IN(L/R)
SW
MTS+
APRO
MSP
HP_AMP
Sound AMP
Input
Terminal
(Video)
CVBS
S-VIDEO
YCbCr
PC IN
SPEAKER
Headphone
SIGNAL BOARD
DDR RAM*2
FLI8548
CORTEZ Plus w HDMI
VBI Data
Processor
Analog
Front
End
(16port)
Video
Decoder
MUX
DCDi
MADi
Scaling
2nd
Channel
Process
OSD
BEP
LVDS
8
Digital
Input A
HDMI
IR I/F
Micro-
processor
GPIO
ADC
I2C
AMP
DAC
I2C
PANEL I/F
I2C
EEPROM
FLASH ROM
Cortez
Regulator
HDMI SW
HDMI
PANEL
+Low B
POWER BOARD
AC INPUT&
Power

SCHEMATIC DIAGRAM

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" FOR DIRECT VIEW CTV ONLY, "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and
should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SAFETY PRECAUTION and PRODUCT SAFETY NOTICE.

Do not degrade the safety of the receiver through improper servicing.

Note:

1. RESISTOR

   Resistance is shown in ohm [K=1,000, M=1,000,000]. All resistors are 1/6 W and 5 % tolerance carbon resistor, unless otherwise noted as the following marks.

   1/2R : Metal or Metal oxide of 1/2 watt
   1/2S : Carbon composition of 1/2 watt
   1RF : Fuse resistor of 1 watt
   10 W : Cement of 10 watt
   K : ±10 %
   G : ±2 %
   F : ±1 %

2. CAPACITOR

   Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in µF, and the values more than 1 in pF.

All capacitors are ceramic 50 V, unless otherwise noted as the following marks.

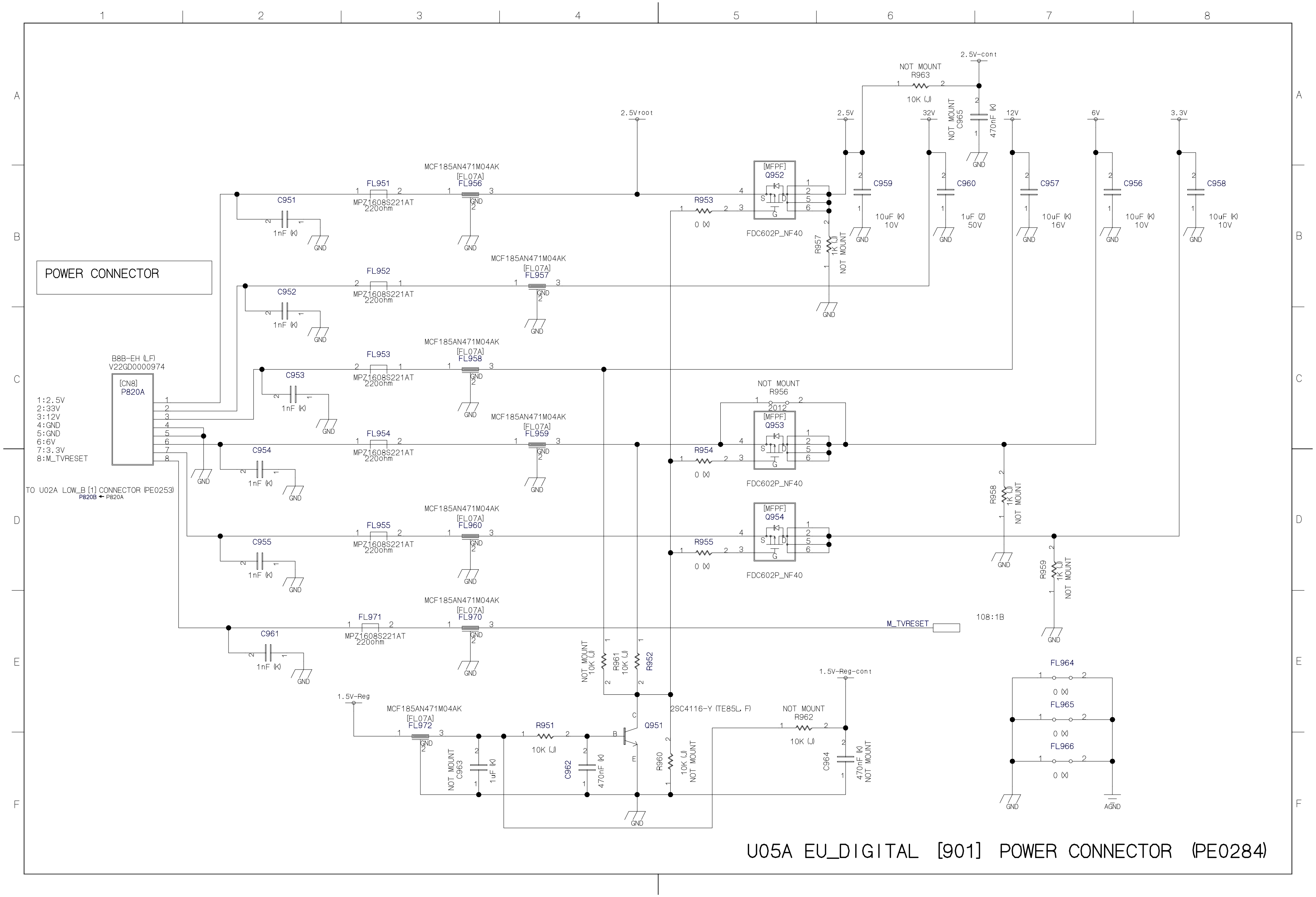
+⊣⊢ = Electrolytic capacitor
Ⓜ⊣⊢ = Mylar capacitor

3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.

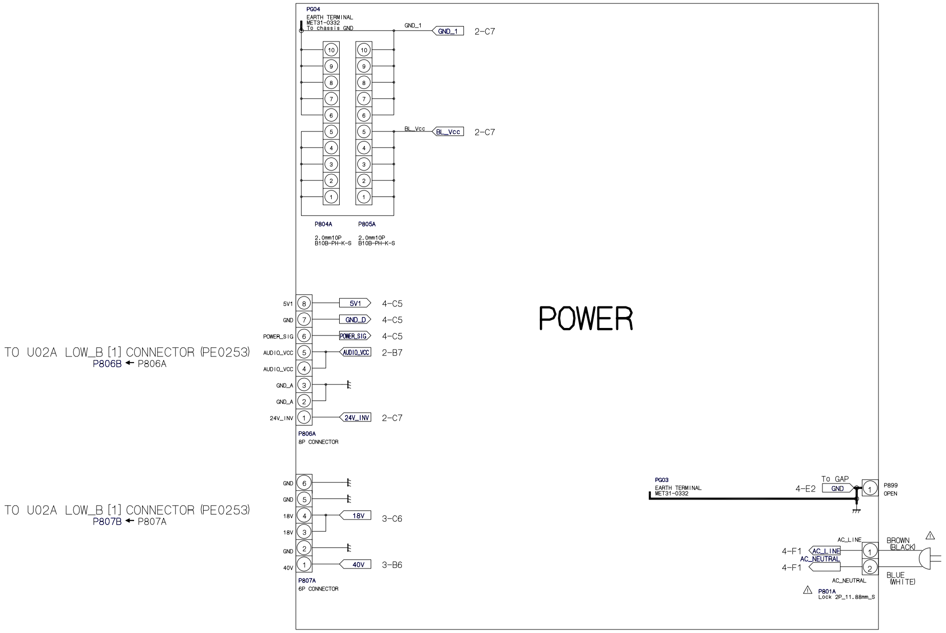
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassis ground, using a color bar signal with all controls at normal, line voltage at nominal AC volts.

5. Waveforms are taken receiving color bar signal with enough sensitivity.

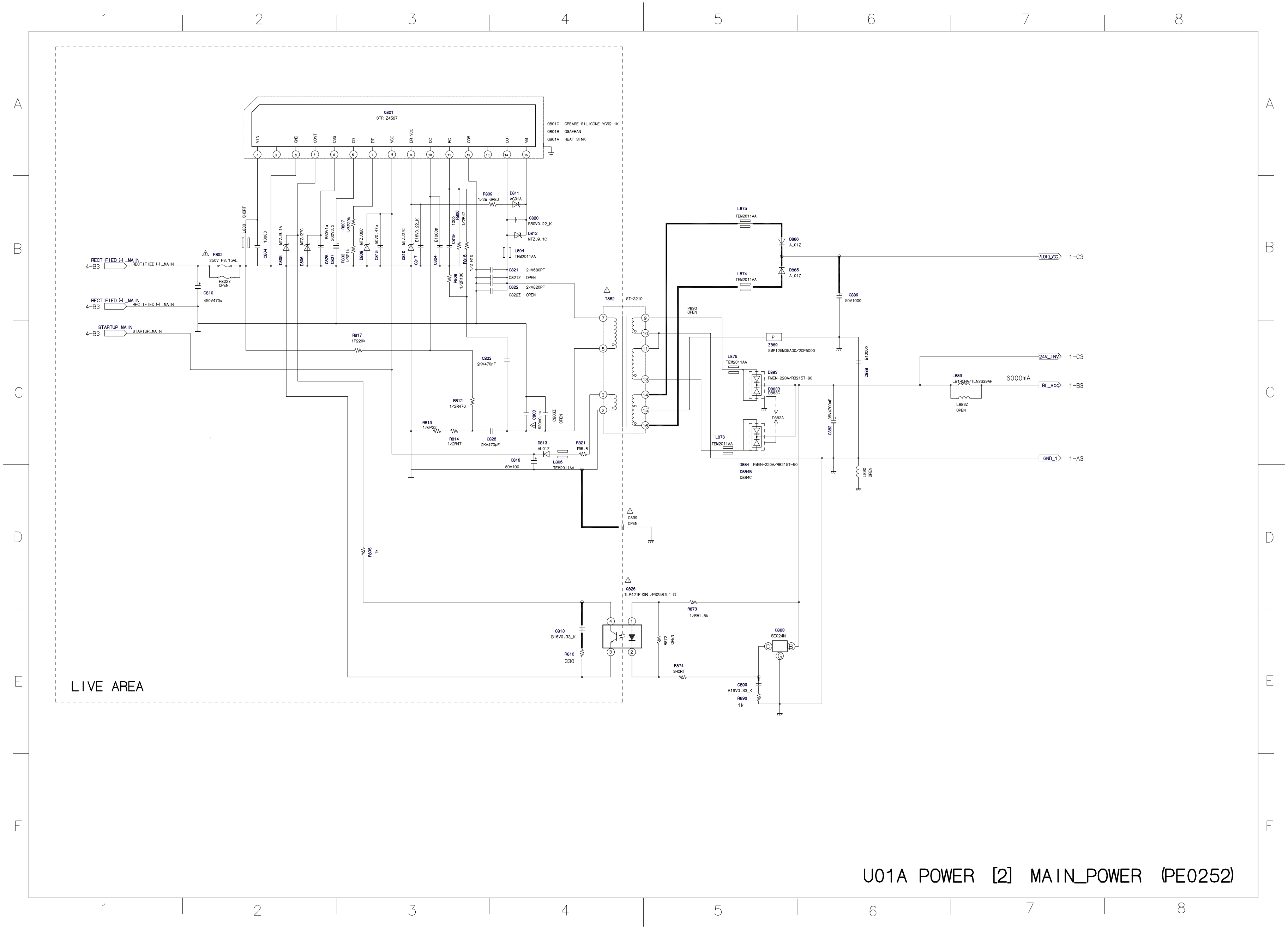
6. Voltage reading shown are nominal values and may vary ±20 % except H.V.


POWER CONNECTOR
B8B-EH (LF)
V22GD0000974
[CN8]
P820A
1:2.5V
2:33V
3:12V
4:GND
5:GND
6:6V
7:3.3V
8:M_TVRESET
TO U02A LOW_B [1] CONNECTOR (PE0253)
P820B ← P820A
C951 1nF (K)
C952 1nF (K)
C953 1nF (K)
C954 1nF (K)
C955 1nF (K)
C961 1nF (K)
FL951 MPZ1608S221AT 220ohm
FL952 MPZ1608S221AT 220ohm
FL953 MPZ1608S221AT 220ohm
FL954 MPZ1608S221AT 220ohm
FL955 MPZ1608S221AT 220ohm
FL971 MPZ1608S221AT 220ohm
MCF185AN471M04AK [FL07A] FL956
MCF185AN471M04AK [FL07A] FL957
MCF185AN471M04AK [FL07A] FL958
MCF185AN471M04AK [FL07A] FL959
MCF185AN471M04AK [FL07A] FL960
MCF185AN471M04AK [FL07A] FL970
MCF185AN471M04AK [FL07A] FL972
GND
2.5Vroot
2.5V
32V
12V
6V
3.3V
2.5V-cont
NOT MOUNT R963 10K (J)
NOT MOUNT C965 470nF (K)
[MFPF] Q952 FDC602P_NF40
[MFPF] Q953 FDC602P_NF40
[MFPF] Q954 FDC602P_NF40
R953 0 (K)
R954 0 (K)
R955 0 (K)
R957 1K (J) NOT MOUNT
R958 1K (J) NOT MOUNT
R959 1K (J) NOT MOUNT
NOT MOUNT R956 2012
C959 10uF (K) 10V
C960 1uF (Z) 50V
C957 10uF (K) 16V
C956 10uF (K) 10V
C958 10uF (K) 10V
M_TVRESET
108:1B
NOT MOUNT R961 10K (J)
R952
1.5V-Reg
1.5V-Reg-cont
NOT MOUNT C963 1uF (K)
R951 10K (J)
C962 470nF (K)
Q951 2SC4116-Y (TE85L, F)
B C E
R960 10K (J) NOT MOUNT
NOT MOUNT R962 10K (J)
C964 470nF (K) NOT MOUNT
FL964 0 (K)
FL965 0 (K)
FL966 0 (K)
AGND
1 2 3 4 5 6 7 8
A B C D E F

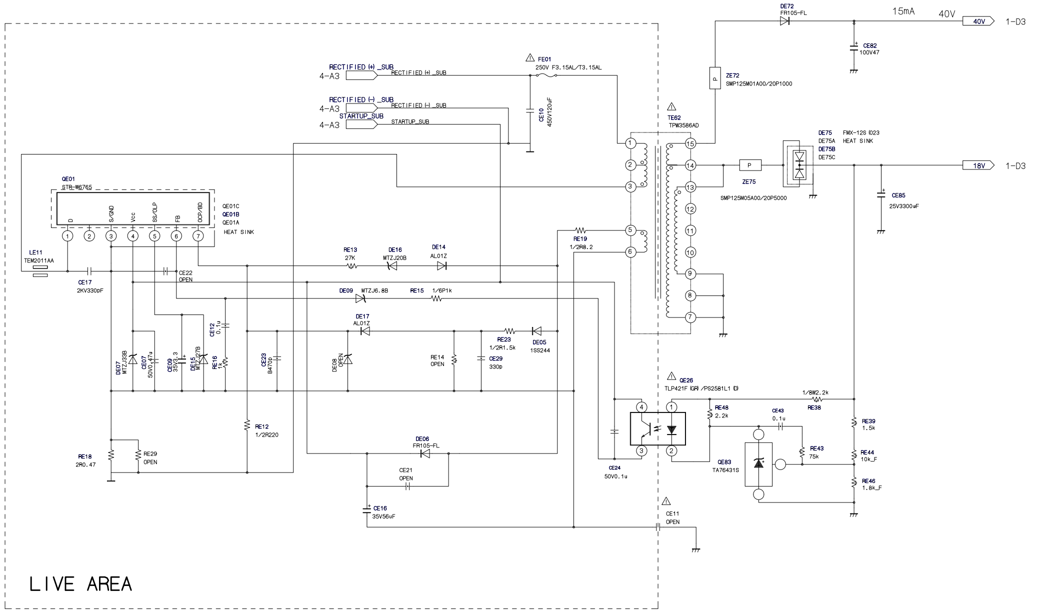
U05A EU_DIGITAL [901] POWER CONNECTOR (PE0284)


POWER
PG04
EARTH TERMINAL
MET31-0332
To chassis GND
GND_1
GND_1
2-C7
10
9
8
7
6
5
4
3
2
1
BL_Vcc
BL_Vcc
2-C7
P804A
P805A
2.0mm10P
B10B-PH-K-S
2.0mm10P
B10B-PH-K-S
TO U02A LOW_B [1] CONNECTOR (PE0253)
P806B ← P806A
5V1
GND
POWER_SIG
AUDIO_VCC
AUDIO_VCC
GND_A
GND_A
24V_INV
5V1
4-C5
GND_D
4-C5
POWER_SIG
4-C5
AUDIO_VCC
2-B7
24V_INV
2-C7
P806A
8P CONNECTOR
TO U02A LOW_B [1] CONNECTOR (PE0253)
P807B ← P807A
GND
GND
18V
18V
GND
40V
18V
3-C6
40V
3-B6
P807A
6P CONNECTOR
PG03
EARTH TERMINAL
MET31-0332
To GAP
4-E2
GND
P899
OPEN
AC_LINE
4-F1
AC_LINE
AC_NEUTRAL
4-F1
AC_NEUTRAL
BROWN
(BLACK)
BLUE
(WHITE)
⚠
⚠
P801A
Lock 2P_11.88mm_S

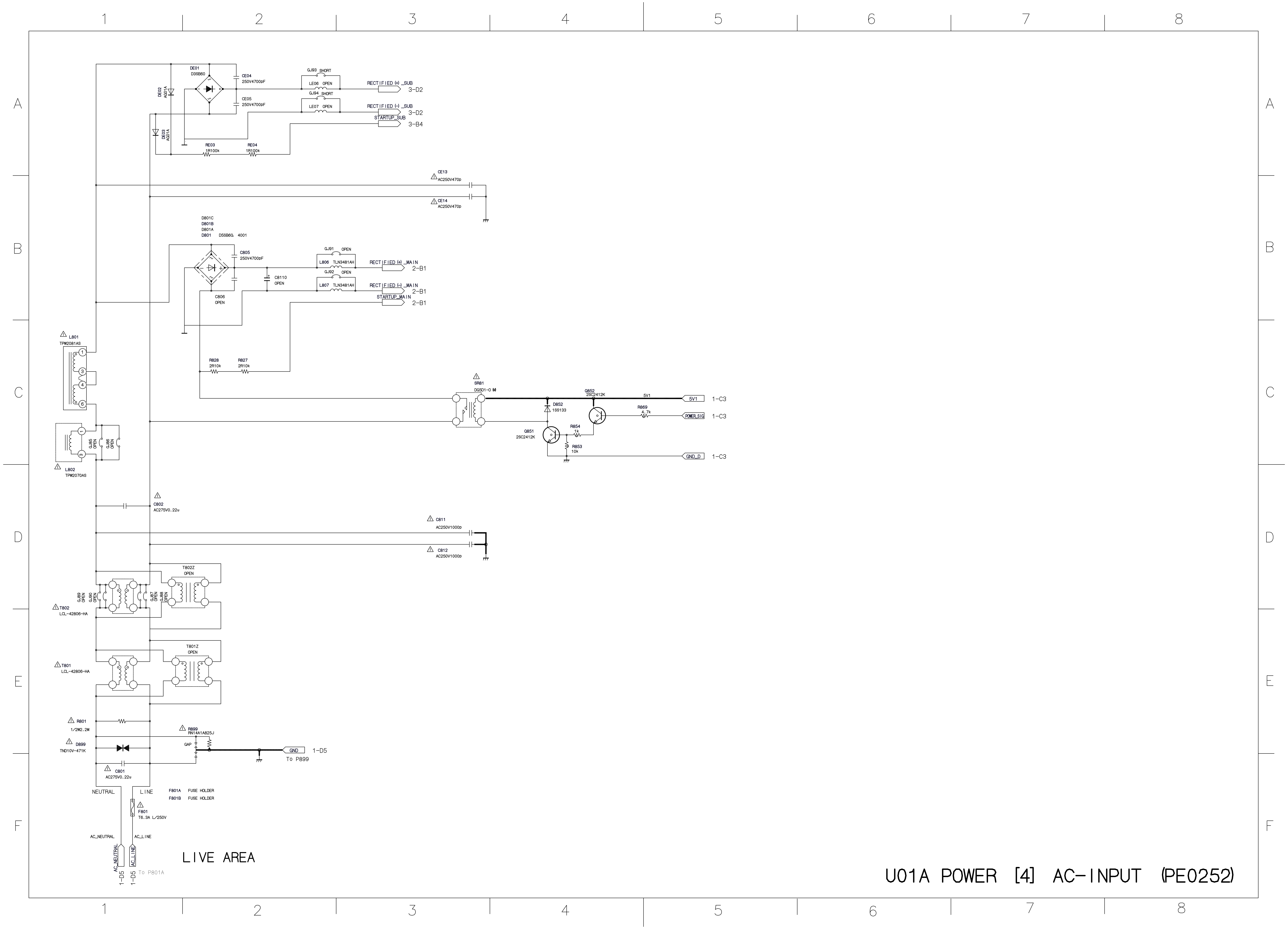
U01A POWER [1] CONNECTOR (PE0252)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
Q801
STR-Z4567
VIN
GND
CONT
CSS
CD
DT
VCC
DRIVCC
OC
RC
COM
OUT
VB
Q801C GREASE SILICONE YG62 1K
Q801B OSAEBAN
Q801A HEAT SINK
R809
1/2W 6R8J
D811
AG01A
C820
B50V0.22_K
D812
MTZJ9.1C
L804
TEM2011AA
L803 SHORT
C804 10000
D805 MTZJ9.1A
D806 MTZJ27C
C825 B50V1u
C827 200V2.2
R807 1/6P39k
R803 1/6P1k
D809 MTZJ36C
C815 50V0.47u
D810 MTZJ27C
C817 B16V0.22_K
C824 B1000p
C819 100p
R806 1/2R47
R815 1/2 R10
R808 1/2R100
C821 2kV680PF
C821Z OPEN
C822 2kV820PF
C822Z OPEN
RECTIFIED (+) _MAIN
4-B3
RECTIFIED (+) _MAIN
F802
250V F3.15AL
F802Z
OPEN
C810
450V470u
RECTIFIED (-) _MAIN
4-B3
RECTIFIED (-) _MAIN
STARTUP_MAIN
4-B3
STARTUP_MAIN
R817
1P220k
C823
2KV470pF
R812
1/2R470
R813
1/6P22
R814
1/2R47
C826
2KV470pF
C803
630V0.1u
C803Z
OPEN
D813
AL01Z
R821
1W6.8
C816
50V100
L805
TEM2011AA
T862
ST-3210
L875
TEM2011AA
D886
AL01Z
L874
TEM2011AA
D885
AL01Z
AUDIO_VCC
1-C3
C889
50V1000
P890
OPEN
P
Z889
SMP125M05A00/20P5000
L876
TEM2011AA
D883
FMEN-220A/RB215T-90
D883B
D883C
D883A
L878
TEM2011AA
D884 FMEN-220A/RB215T-90
D884B
D884C
C883 35V4700uF
C888 B1000p
L890 OPEN
24V_INV
1-C3
L883
LB1R5HA/TLN3639AH
6000mA
L883Z
OPEN
BL_Vcc
1-B3
GND_1
1-A3
C899
OPEN
R805
1k
Q826
TLP421F (GR) /PS2581L1 (D)
C813
B16V0.33_K
R816
330
R872
OPEN
R873
1/8W1.5k
R874
SHORT
Q883
SE024N
C
B
G
C890
B16V0.33_K
R890
1k
LIVE AREA

U01A POWER [2] MAIN_POWER (PE0252)

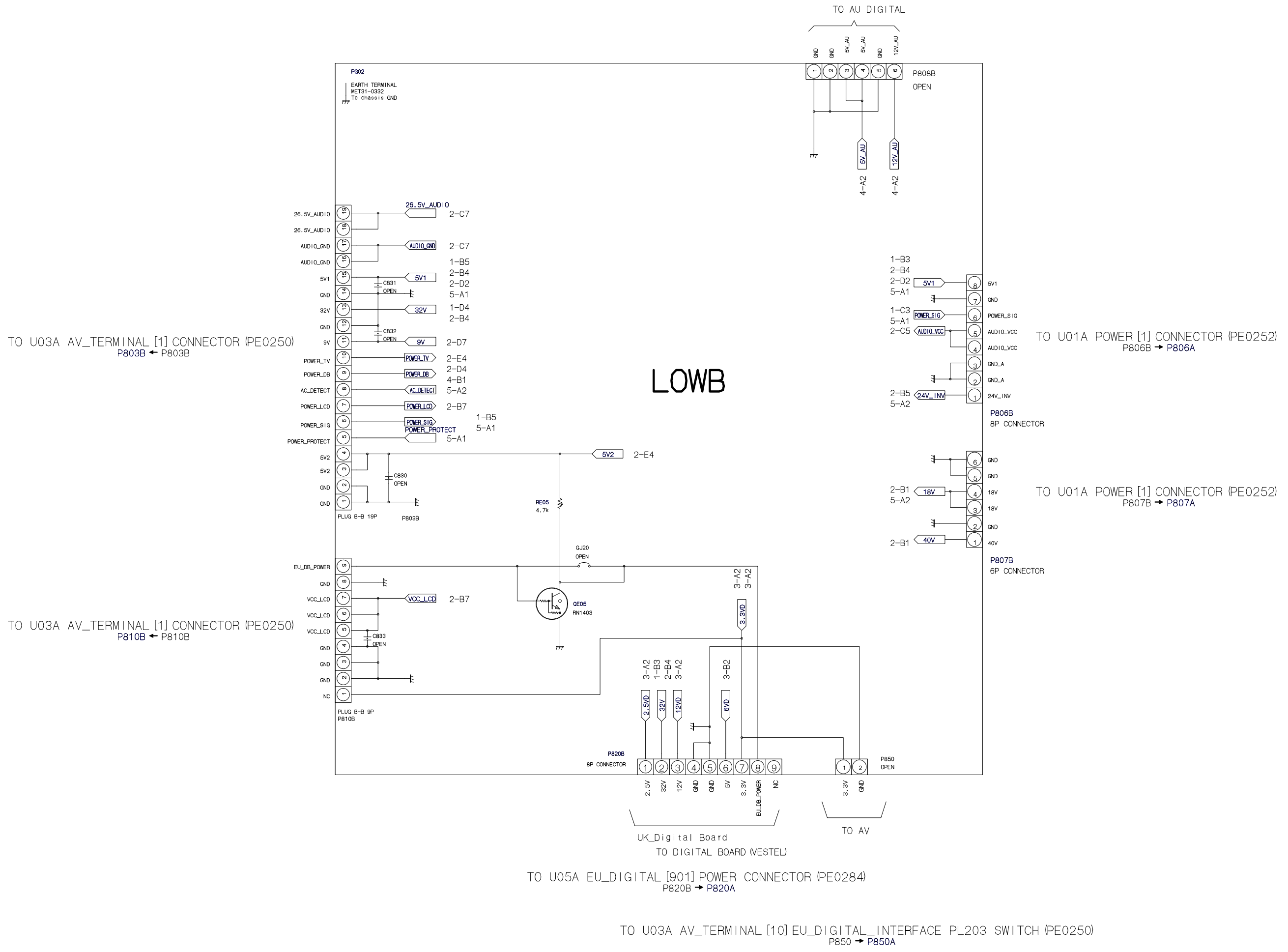

RECTIFIED (+) _SUB
4-A3
RECTIFIED (-) _SUB
4-A3
STARTUP_SUB
4-A3
FE01
250V F3.15AL/T3.15AL
CE10
450V120uF
TE62
TPW3586AD
QE01
STR-W6765
D
S/GND
Vcc
SS/OLP
FB
OCP/BD
QE01C
QE01B
QE01A
HEAT SINK
LE11
TEM2011AA
CE17
2KV330pF
CE22
OPEN
RE13
27K
DE16
MTZJ20B
DE14
AL01Z
RE19
1/2R8.2
DE09
MTZJ6.8B
RE15
1/6P1k
DE17
AL01Z
RE23
1/2R1.5k
DE05
1SS244
DE07
MTZJ33B
CE07
50V0.47u
CE09
35V3.3
DE15
MTZJ27B
CE12
0.1u
RE16
1k
CE23
B470p
DE08
OPEN
RE14
OPEN
CE29
330p
RE12
1/2R220
RE18
2R0.47
RE29
OPEN
DE06
FR105-FL
CE21
OPEN
CE16
35V56uF
CE24
50V0.1u
CE11
OPEN
QE26
TLP421F (GR) /PS2581L1 (D)
RE48
2.2k
CE43
0.1u
1/8W2.2k
RE38
RE39
1.5k
RE43
75k
RE44
10k_F
RE46
1.8k_F
QE83
TA76431S
DE72
FR105-FL
15mA
40V
40V
1-D3
CE82
100V47
ZE72
SMP125M01A00/20P1000
P
DE75 FMX-12S (023
DE75A HEAT SINK
DE75B
DE75C
ZE75
SMP125M05A00/20P5000
18V
1-D3
CE85
25V3300uF
LIVE AREA

U01A POWER [3] SUB_POWER (PE0252)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
DE01
D3SB60
CE04
250V4700pF
CE05
250V4700pF
DE02
AG01A
DE03
AG01A
GJ93 SHORT
LE06 OPEN
GJ94 SHORT
LE07 OPEN
RECTIFIED (+) _SUB
3-D2
RECTIFIED (-) _SUB
3-D2
STARTUP_SUB
3-B4
RE03
1R100k
RE04
1R100k
CE13
AC250V470p
CE14
AC250V470p
D801C
D801B
D801A
D801 D5SB60, 4001
C805
250V4700pF
C806
OPEN
C8110
OPEN
GJ91 OPEN
L806 TLN3481AH
GJ92 OPEN
L807 TLN3481AH
RECTIFIED (+) _MAIN
2-B1
RECTIFIED (-) _MAIN
2-B1
STARTUP_MAIN
2-B1
L801
TPW2081AS
1
3
4
6
R828
2R10k
R827
2R10k
SR81
DG5D1-O (M)
D852
1SS133
Q852
2SC2412K
5V1
5V1
1-C3
R869
4.7k
POWER_SIG
1-C3
Q851
2SC2412K
R854
1k
R853
10k
GND_D
1-C3
L802
TPW2070AS
GJ85 OPEN
GJ86 OPEN
C802
AC275V0.22u
C811
AC250V1000p
C812
AC250V1000p
T802Z
OPEN
GJ89 OPEN
GJ90 OPEN
GJ87 OPEN
GJ88 OPEN
T802
LCL-42806-HA
T801Z
OPEN
T801
LCL-42806-HA
R801
1/2W2.2M
R899
RN14A1A825J
GAP
GND
1-D5
To P899
D899
TND10V-471K
C801
AC275V0.22u
NEUTRAL
LINE
F801A FUSE HOLDER
F801B FUSE HOLDER
F801
T6.3A L/250V
AC_NEUTRAL
AC_LINE
AC_NEUTRAL
AC_LINE
1-D5
1-D5
To P801A
LIVE AREA

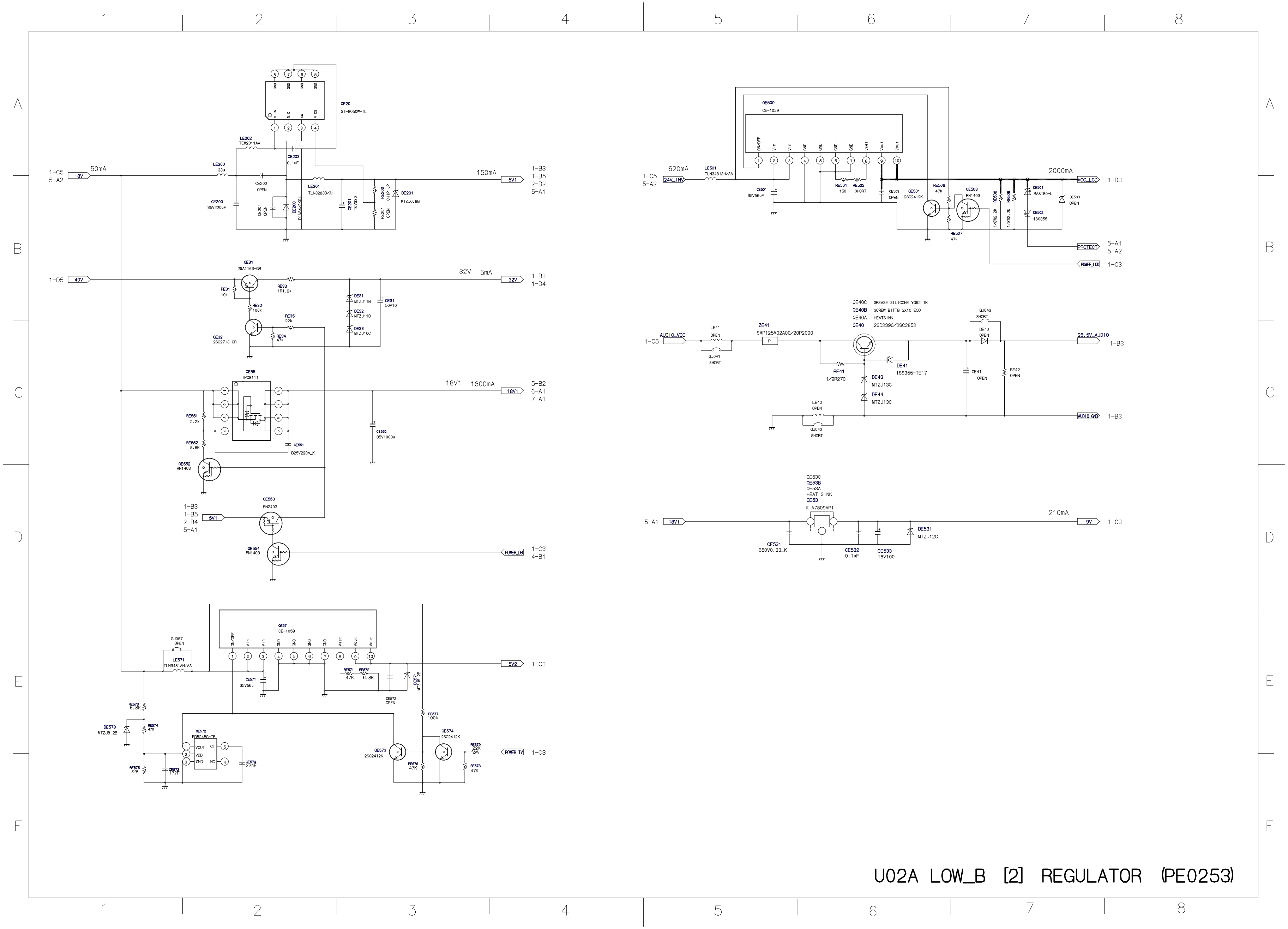
U01A POWER [4] AC-INPUT (PE0252)

U02A LOW_B [1] CONNECTOR (PE0253)

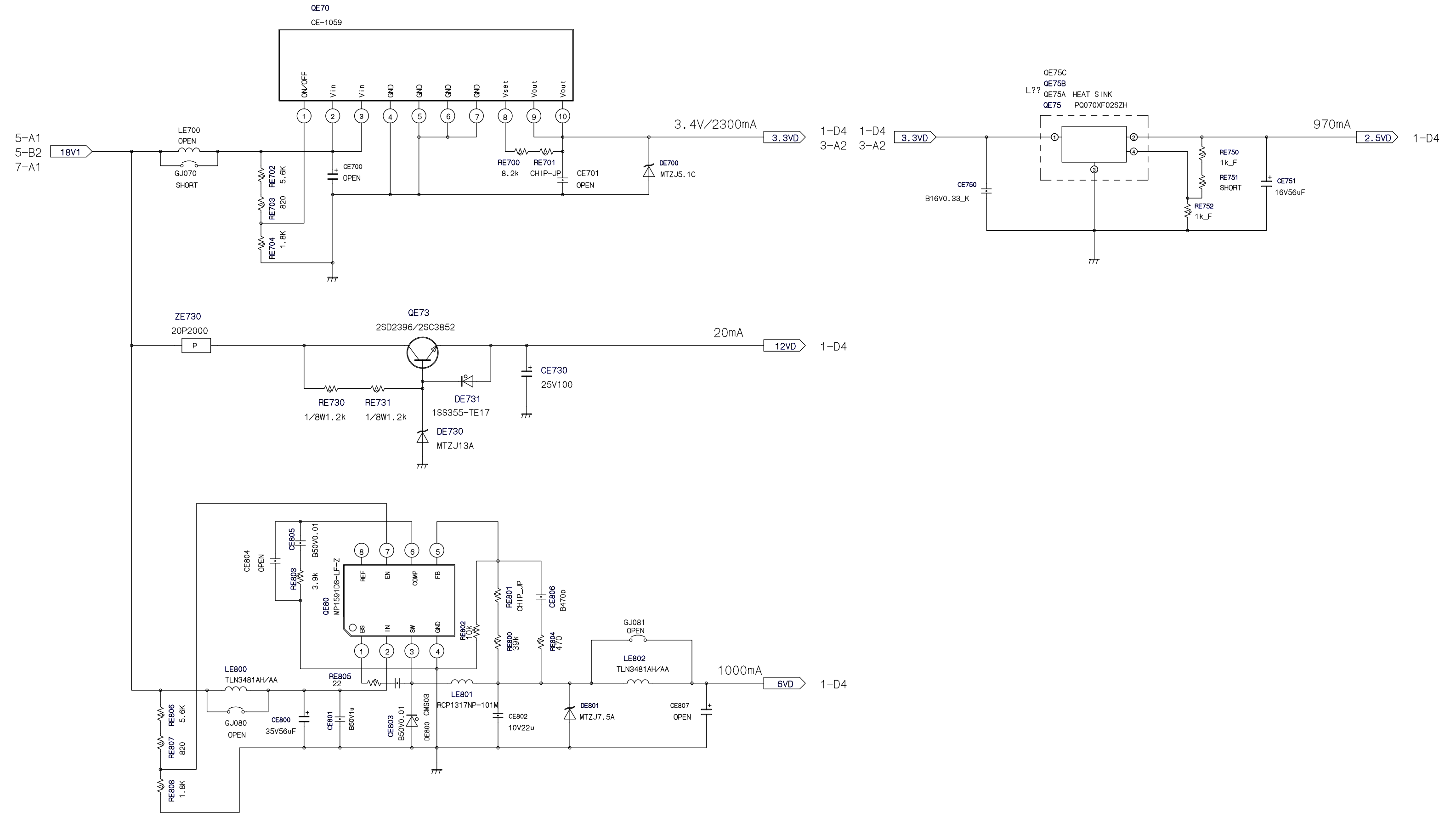

TO AU DIGITAL
GND
GND
5V_AU
5V_AU
GND
12V_AU
P808B
OPEN
5V_AU
12V_AU
4-A2
4-A2
PG02
EARTH TERMINAL
MET31-0332
To chassis GND
LOWB
TO U03A AV_TERMINAL [1] CONNECTOR (PE0250)
P803B ← P803B
26.5V_AUDIO
26.5V_AUDIO
AUDIO_GND
AUDIO_GND
5V1
GND
32V
GND
9V
POWER_TV
POWER_DB
AC_DETECT
POWER_LCD
POWER_SIG
POWER_PROTECT
5V2
5V2
GND
GND
PLUG B-B 19P
P803B
26.5V_AUDIO
2-C7
AUDIO_GND
2-C7
1-B5
2-B4
2-D2
5-A1
5V1
C831
OPEN
32V
1-D4
2-B4
C832
OPEN
9V
2-D7
POWER_TV
2-E4
POWER_DB
2-D4
4-B1
AC_DETECT
5-A2
POWER_LCD
2-B7
POWER_SIG
POWER_PROTECT
1-B5
5-A1
5-A1
C830
OPEN
5V2
2-E4
RE05
4.7k
GJ20
OPEN
QE05
RN1403
TO U03A AV_TERMINAL [1] CONNECTOR (PE0250)
P810B ← P810B
EU_DB_POWER
GND
VCC_LCD
VCC_LCD
VCC_LCD
GND
GND
GND
NC
VCC_LCD
2-B7
C833
OPEN
PLUG B-B 9P
P810B
3-A2
3-A2
3.3VD
3-A2
1-B3
2-B4
3-A2
3-B2
2.5VD
32V
12VD
6VD
P820B
8P CONNECTOR
2.5V
32V
12V
GND
GND
5V
3.3V
EU_DB_POWER
NC
P850
OPEN
3.3V
GND
UK_Digital Board
TO DIGITAL BOARD (VESTEL)
TO AV
1-B3
2-B4
2-D2
5-A1
5V1
5V1
GND
1-C3
5-A1
POWER_SIG
POWER_SIG
2-C5
AUDIO_VCC
AUDIO_VCC
AUDIO_VCC
GND_A
GND_A
2-B5
5-A2
24V_INV
24V_INV
P806B
8P CONNECTOR
TO U01A POWER [1] CONNECTOR (PE0252)
P806B → P806A
GND
GND
2-B1
5-A2
18V
18V
18V
GND
2-B1
40V
40V
P807B
6P CONNECTOR
TO U01A POWER [1] CONNECTOR (PE0252)
P807B → P807A

TO U05A EU_DIGITAL [901] POWER CONNECTOR (PE0284)
P820B → P820A

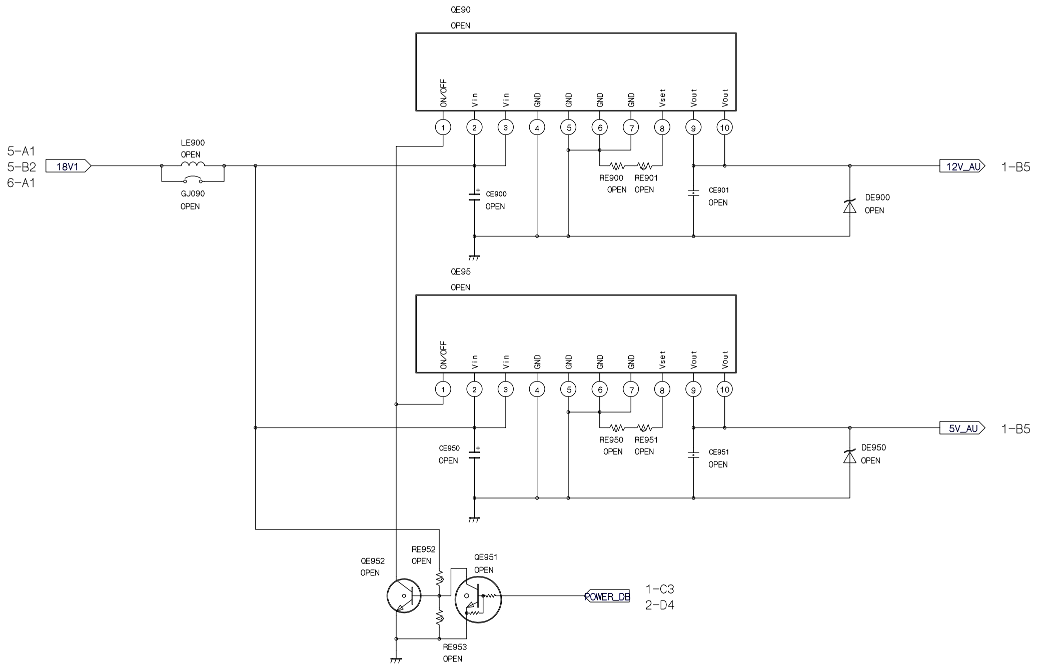
TO U03A AV_TERMINAL [10] EU_DIGITAL_INTERFACE PL203 SWITCH (PE0250)
P850 → P850A


QE20
SI-8050W-TL
LE202
TEM2011AA
LE200
33u
CE202
OPEN
CE203
0.1uF
LE201
TLN3283D/AI
CE200
35V220uF
CE204
OPEN
DE200
D1NS4/J6024
CE201
16V330
RE200
CHIP JP
RE201
OPEN
DE201
MTZJ6.8B
1-C5
5-A2
18V
50mA
150mA
5V1
1-B3
1-B5
2-D2
5-A1
QE31
2SA1163-GR
RE31
10k
RE33
1R1.2k
RE32
100k
RE35
22k
RE34
47k
QE32
2SC2713-GR
DE31
MTZJ11B
DE32
MTZJ11B
DE33
MTZJ10C
CE31
50V10
1-D5
40V
32V
5mA
1-B3
1-D4
QE55
TPC8111
RE551
2.2k
RE552
5.6K
QE552
RN1403
CE551
B25V220n_K
CE552
35V1000u
18V1
1600mA
5-B2
6-A1
7-A1
QE553
RN2403
QE554
RN1403
1-B3
1-B5
2-B4
5-A1
5V1
POWER_DB
1-C3
4-B1
QE57
CE-1059
GJ057
OPEN
LE571
TLN3481AN/AA
CE571
35V56u
RE571
47K
RE572
6.8K
CE572
OPEN
DE571
MTZJ6.2B
5V2
1-C3
RE573
6.8K
DE573
MTZJ8.2B
RE574
470
QE572
BD5245G-TR
VOUT
VDD
GND
CT
NC
RE575
22K
CE573
1TF
CE574
22nF
RE577
100k
QE573
2SC2412K
QE574
2SC2412K
RE576
47K
RE579
22K
RE578
47K
POWER_TV
1-C3
QE500
CE-1059
ON/OFF
Vin
GND
Vset
Vout
1-C5
5-A2
620mA
24V_INV
LE501
TLN3481AN/AA
CE501
35V56uF
RE501
150
RE502
SHORT
CE503
OPEN
QE501
2SC2412K
RE506
47k
QE503
RN1403
RE507
47k
RE508
1/8W2.2k
RE509
1/8W2.2k
DE501
MA8180-L
DE502
1SS355
DE503
OPEN
2000mA
VCC_LCD
1-D3
PROTECT
5-A1
5-A2
POWER_LCD
1-C3
QE40C GREASE SILICONE YG62 1K
QE40B SCREW BITTB 3X10 ECO
QE40A HEATSINK
QE40 2SD2396/2SC3852
AUDIO_VCC
1-C5
LE41
OPEN
GJ041
SHORT
ZE41
SMP125M02A00/20P2000
RE41
1/2R270
DE41
1SS355-TE17
DE43
MTZJ13C
DE44
MTZJ13C
GJ043
SHORT
DE42
OPEN
CE41
OPEN
RE42
OPEN
26.5V_AUDIO
1-B3
LE42
OPEN
GJ042
SHORT
AUDIO_GND
1-B3
QE53C
QE53B
QE53A
HEAT SINK
QE53
KIA7809API
5-A1
18V1
CE531
B50V0.33_K
CE532
0.1uF
CE533
16V100
DE531
MTZJ12C
210mA
9V
1-C3
1
2
3
4
5
6
7
8
A
B
C
D
E
F

U02A LOW_B [2] REGULATOR (PE0253)


QE70
CE-1059
ON/OFF
Vin
Vin
GND
GND
GND
GND
Vset
Vout
Vout
5-A1
5-B2
7-A1
18V1
LE700
OPEN
GJ070
SHORT
RE702 5.6K
RE703 820
RE704 1.8K
CE700
OPEN
RE700
8.2k
RE701
CHIP-JP
CE701
OPEN
DE700
MTZJ5.1C
3.4V/2300mA
3.3VD
1-D4
3-A2
1-D4
3-A2
3.3VD
QE75C
QE75B
L??
QE75A HEAT SINK
QE75 PQ070XF02SZH
CE750
B16V0.33_K
RE750
1k_F
RE751
SHORT
RE752
1k_F
CE751
16V56uF
970mA
2.5VD
1-D4
ZE730
20P2000
P
QE73
2SD2396/2SC3852
20mA
12VD
1-D4
RE730
1/8W1.2k
RE731
1/8W1.2k
DE731
1SS355-TE17
CE730
25V100
DE730
MTZJ13A
CE804
OPEN
CE805
B50V0.01
RE803
3.9k
QE80
MP1591DS-LF-Z
REF
EN
COMP
FB
BS
IN
SW
GND
RE802
10k
RE801
CHIP_JP
CE806
B470p
RE800
39k
RE804
470
GJ081
OPEN
LE802
TLN3481AH/AA
1000mA
6VD
1-D4
LE800
TLN3481AH/AA
RE805
22
LE801
RCP1317NP-101M
RE806 5.6K
RE807 820
RE808 1.8K
GJ080
OPEN
CE800
35V56uF
CE801
B50V1u
CE803
B50V0.01
DE800 CMS03
CE802
10V22u
DE801
MTZJ7.5A
CE807
OPEN

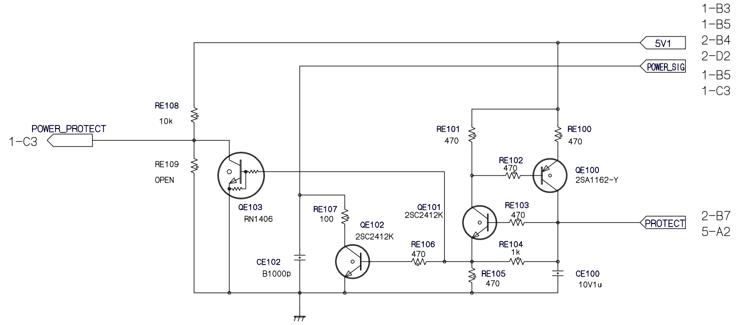
U02A LOW_B [3] for UK DIGITAL (PE0253)


QE90
OPEN
ON/OFF
Vin
Vin
GND
GND
GND
GND
Vset
Vout
Vout
1
2
3
4
5
6
7
8
9
10
5-A1
5-B2
6-A1
18V1
LE900
OPEN
GJ090
OPEN
CE900
OPEN
RE900
OPEN
RE901
OPEN
CE901
OPEN
DE900
OPEN
12V_AU
1-B5
QE95
OPEN
ON/OFF
Vin
Vin
GND
GND
GND
GND
Vset
Vout
Vout
1
2
3
4
5
6
7
8
9
10
CE950
OPEN
RE950
OPEN
RE951
OPEN
CE951
OPEN
DE950
OPEN
5V_AU
1-B5
QE952
OPEN
RE952
OPEN
QE951
OPEN
POWER_DB
1-C3
2-D4
RE953
OPEN

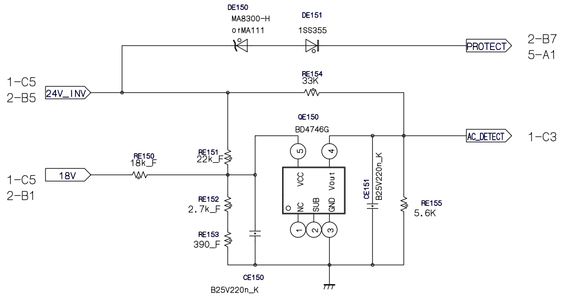
U02A LOW_B [4] for AU_DIGITAL (PE0253)

A A

PROTECTER

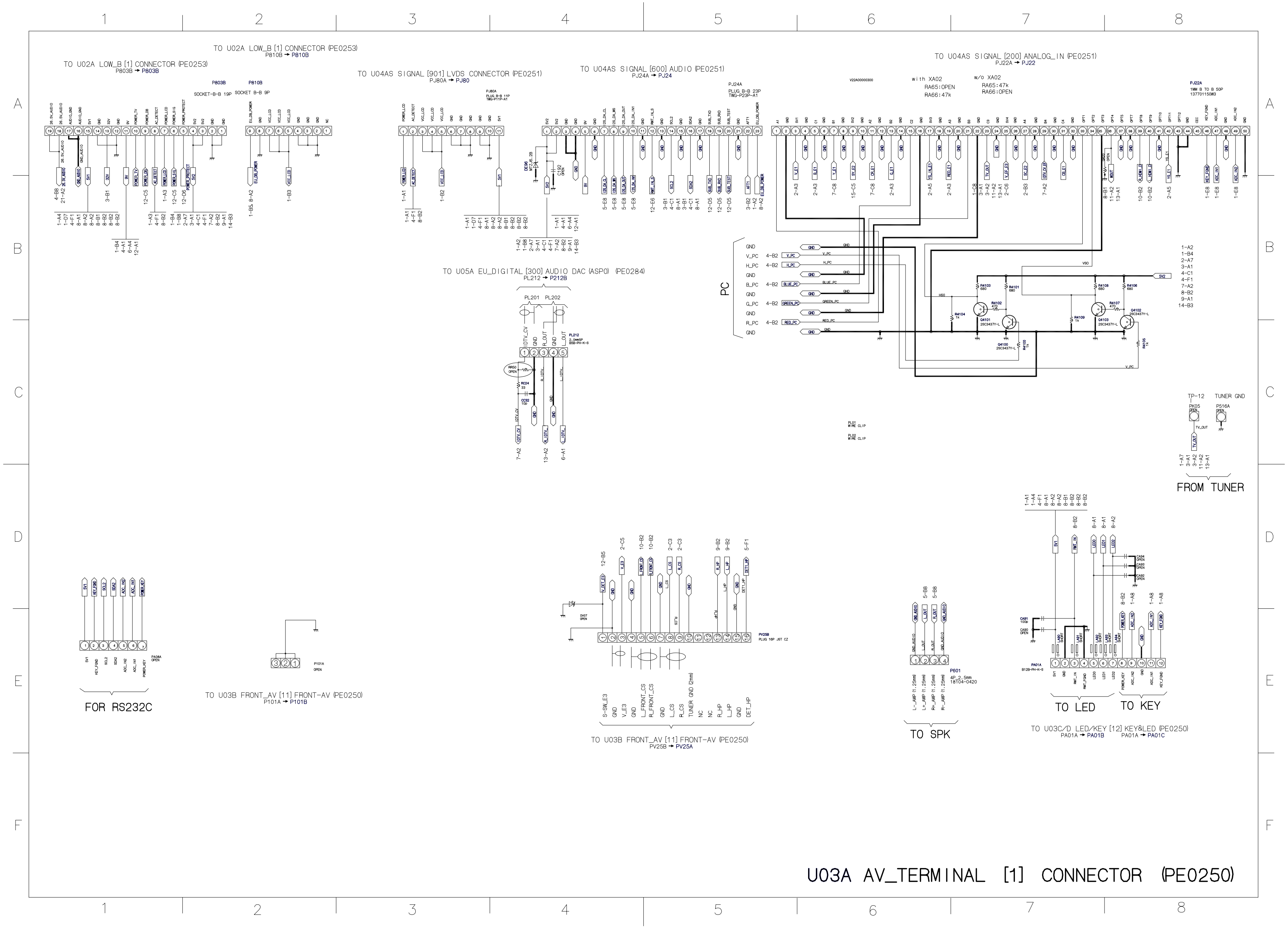

1-B3
1-B5
2-B4
2-D2
1-B5
1-C3
5V1
POWER_SIG
RE108
10k
POWER_PROTECT
1-C3
RE109
OPEN
QE103
RN1406
RE101
470
RE100
470
RE102
470
QE100
2SA1162-Y
QE101
2SC2412K
RE103
470
PROTECT
2-B7
5-A2
RE107
100
QE102
2SC2412K
RE106
470
RE104
1k
CE102
B1000p
RE105
470
CE100
10V1u

ACDETECT

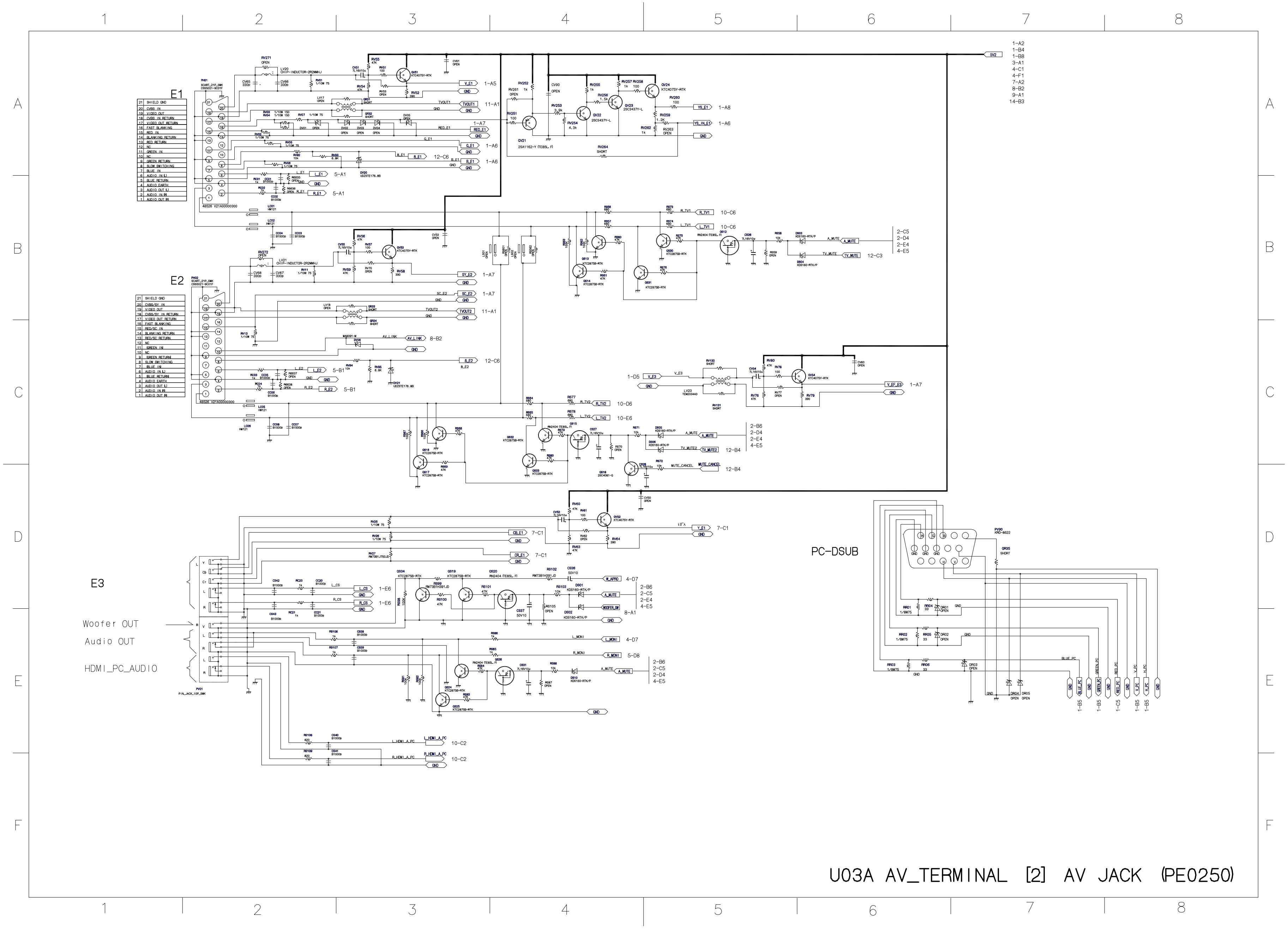

DE150
MA8300-H
orMA111
DE151
1SS355
PROTECT
2-B7
5-A1
1-C5
2-B5
24V_INV
RE154
33K
QE150
BD4746G
AC_DETECT
1-C3
RE150
18k_F
1-C5
2-B1
18V
RE151
22k_F
5
4
VCC
Vout
NC
SUB
GND
1
2
3
CE151
B25V220n_K
RE155
5.6K
RE152
2.7k_F
RE153
390_F
CE150
B25V220n_K

B B

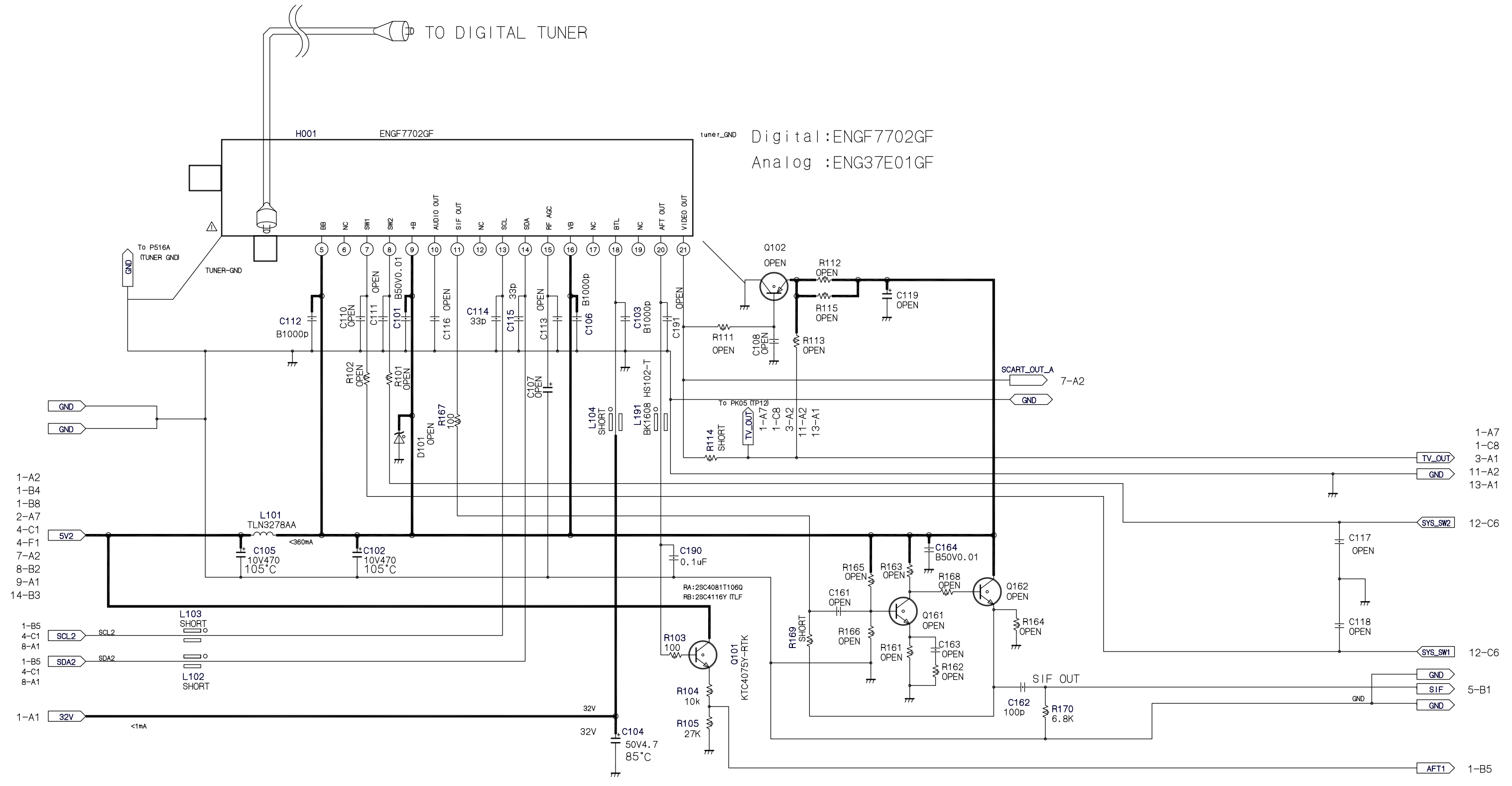
U02A LOW_B [5] OTHER (PE0253)


TO U02A LOW_B [1] CONNECTOR (PE0253)
P810B → P810B
TO U02A LOW_B [1] CONNECTOR (PE0253)
P803B → P803B
P803B
SOCKET-B-B 19P
P810B
SOCKET B-B 9P
TO U04AS SIGNAL [901] LVDS CONNECTOR (PE0251)
PJ80A → PJ80
PJ80A
PLUG B-B 11P
TO U04AS SIGNAL [600] AUDIO (PE0251)
PJ24A → PJ24
PJ24A
PLUG B-B 23P
TO U04AS SIGNAL [200] ANALOG_IN (PE0251)
PJ22A → PJ22
with XA02
RA65:OPEN
RA66:47k
w/o XA02
RA65:47k
RA66:OPEN
PJ22A
1MM B TO B 50P
TO U05A EU_DIGITAL [300] AUDIO DAC (ASP0) (PE0284)
PL212 → P212B
PL201
PL202
IDTV_CV
GND
R_OUT
GND
L_OUT
PL212
PC
GND
V_PC
H_PC
GND
B_PC
GND
G_PC
GND
R_PC
GND
Q4100
Q4101
Q4102
Q4103
2SC3437Y-L
R4101
R4102
R4103
R4104
R4105
R4106
R4107
R4108
R4109
5V2
TP-12
TUNER GND
PK05
P516A
OPEN
TV_OUT
FROM TUNER
PL01
WIRE CLIP
PL02
WIRE CLIP
FOR RS232C
PA08A
OPEN
5V1
KEY_FGND
SCL2
SDA2
ADC_IN2
ADC_IN1
POWER_KEY
P101A
OPEN
TO U03B FRONT_AV [11] FRONT-AV (PE0250)
P101A → P101B
PV25B
PLUG 16P JST CZ
S-SW_E3
GND
V_E3
GND
L_FRONT_CS
R_FRONT_CS
GND
L_CS
R_CS
TUNER GND (2mm)
NC
NC
R_HP
L_HP
GND
DET_HP
TO U03B FRONT_AV [11] FRONT-AV (PE0250)
PV25B → PV25A
P601
4P_2.5mm
L-_AMP
L+_AMP
R+_AMP
R-_AMP
TO SPK
PA01A
5V1
GND
RMT_IN
RMT_FGND
LED0
LED1
LED2
POWER_KEY
ADC_IN2
GND
ADC_IN1
KEY_FGND
TO LED
TO KEY
TO U03C/D LED/KEY [12] KEY&LED (PE0250)
PA01A → PA01B
PA01A → PA01C

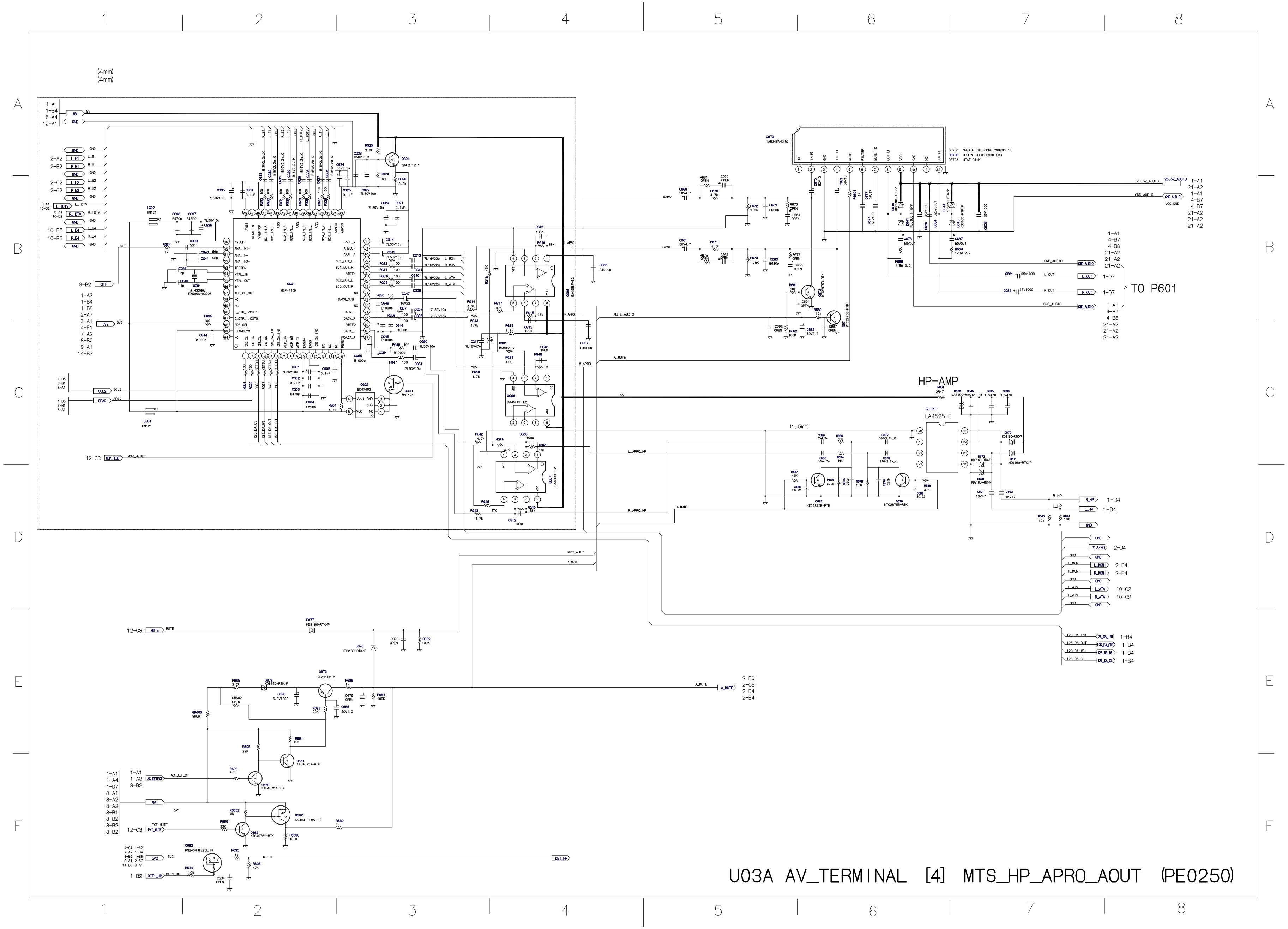
U03A AV_TERMINAL [1] CONNECTOR (PE0250)


E1
E2
E3
PC-DSUB
Woofer OUT
Audio OUT
HDMI_PC_AUDIO
5V2
1-A2
1-B4
1-B8
3-A1
4-C1
4-F1
7-A2
8-B2
9-A1
14-B3
TVOUT1
TVOUT2
YS_E1
YS_IN_E1
V_EF_E3
A_MUTE
TV_MUTE
TV_MUTE2
MUTE_CANCEL
R_TV1
L_TV1
R_TV2
L_TV2
AV_LINK
L_MONI
R_MONI
WOOFER_SW
L_HDMI_A_PC
R_HDMI_A_PC
GND
1
2
3
4
5
6
7
8
A
B
C
D
E
F

U03A AV_TERMINAL [2] AV JACK (PE0250)

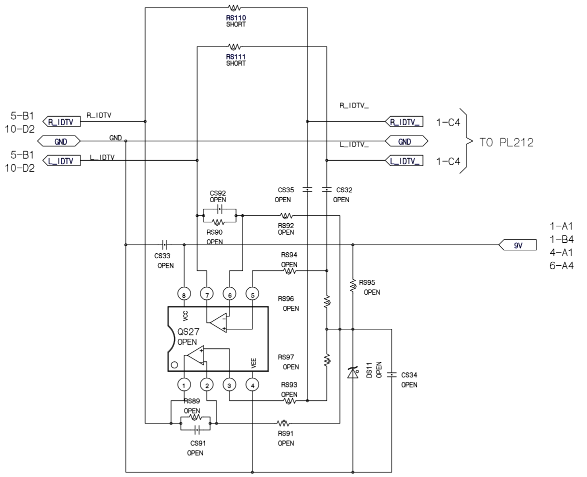

TO DIGITAL TUNER
H001
ENGF7702GF
tuner_GND
Digital:ENGF7702GF
Analog :ENG37E01GF
BB
NC
SW1
SW2
+B
AUDIO OUT
SIF OUT
NC
SCL
SDA
RF AGC
VB
NC
BTL
NC
AFT OUT
VIDEO OUT
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
GND
To P516A
(TUNER GND)
TUNER-GND
C112
B1000p
C110
OPEN
C111
OPEN
C101
B50V0.01
C116
OPEN
C114
33p
C115
33p
C113
OPEN
C106
B1000p
C103
B1000p
C191
OPEN
R102
OPEN
R101
OPEN
C107
OPEN
D101
OPEN
R167
100
L104
SHORT
L191
BK1608 HS102-T
Q102
OPEN
R112
OPEN
R115
OPEN
C119
OPEN
R111
OPEN
C108
OPEN
R113
OPEN
SCART_OUT_A
7-A2
GND
To PK05 (TP12)
TV_OUT
1-A7
1-C8
3-A2
11-A2
13-A1
R114
SHORT
GND
GND
1-A2
1-B4
1-B8
2-A7
4-C1
4-F1
7-A2
8-B2
9-A1
14-B3
5V2
L101
TLN3278AA
<360mA
C105
10V470
105°C
C102
10V470
105°C
C190
0.1uF
RA:2SC4081T106Q
RB:2SC4116Y (TLF
1-B5
4-C1
8-A1
SCL2
SCL2
L103
SHORT
1-B5
4-C1
8-A1
SDA2
SDA2
L102
SHORT
1-A1
32V
<1mA
32V
32V
C104
50V4.7
85°C
R103
100
Q101
KTC4075Y-RTK
R104
10k
R105
27K
R169
SHORT
C161
OPEN
R165
OPEN
R166
OPEN
R163
OPEN
C164
B50V0.01
Q161
OPEN
R161
OPEN
C163
OPEN
R162
OPEN
R168
OPEN
Q162
OPEN
R164
OPEN
SIF OUT
C162
100p
R170
6.8K
1-A7
1-C8
TV_OUT
3-A1
GND
11-A2
13-A1
SYS_SW2
12-C6
C117
OPEN
C118
OPEN
SYS_SW1
12-C6
GND
SIF
5-B1
GND
GND
AFT1
1-B5
1
2
A
A
B
B
1
2

U03A AV_TERMINAL [3] TUNER (PE0250)

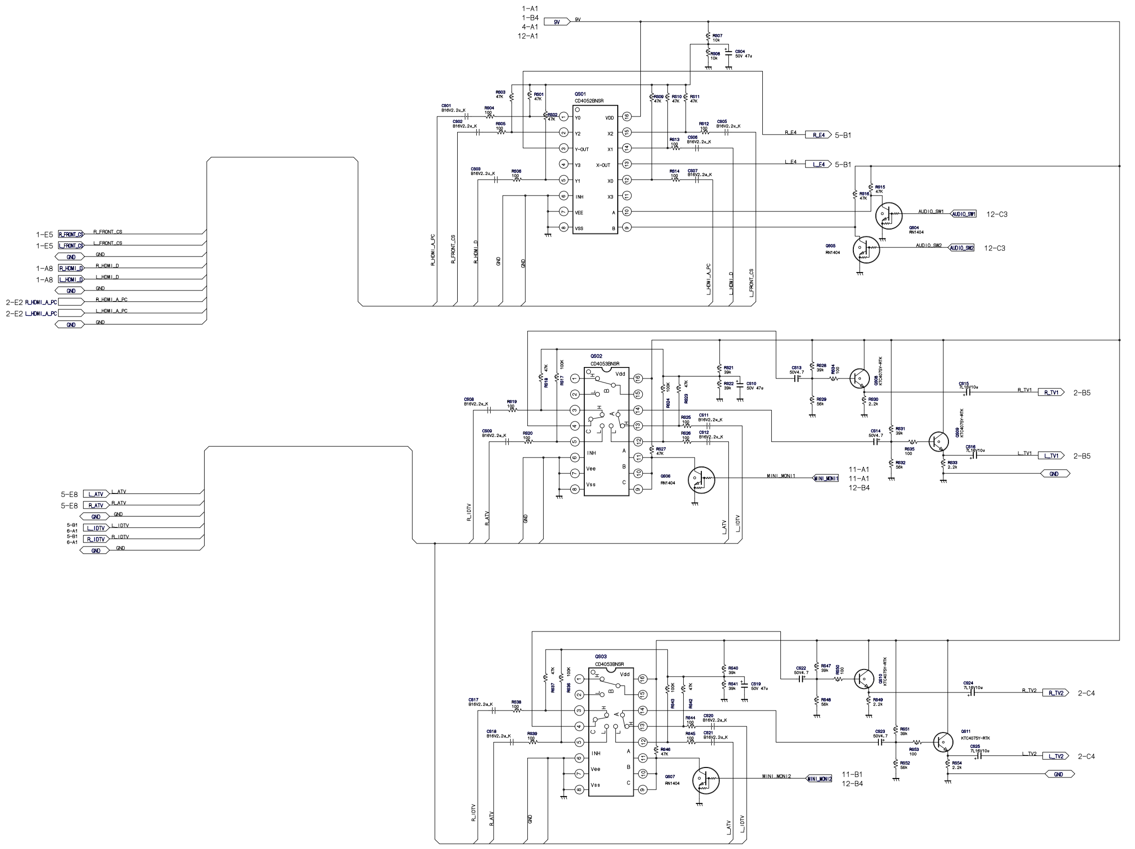


1
2
3
4
5
6
7
8
A
B
C
D
E
F
(4mm)
(4mm)
9V
GND
L_E1
R_E1
L_E2
R_E2
L_IDTV
R_IDTV
L_E4
R_E4
SIF
SV2
SCL2
SDA2
MSP_RESET
Q001
MSP4410K
Q002
BD4746G
Q003
RN1404
Q004
2SC2712.Y
Q005
BA4558F-E2
Q006
BA4558F-E2
Q007
BA4558F-E2
Q670
TA8246AHQ
G670C GREASE SILICONE YG6260 1K
G670B SCREW BITTB 3X10 ECO
G670A HEAT SINK
26.5V_AUDIO
GND_AUDIO
L_OUT
R_OUT
TO P601
HP-AMP
Q630
LA4525-E
(1.5mm)
R_HP
L_HP
GND
M_APRO
L_MONI
R_MONI
L_ATV
R_ATV
I2S_DA_IN1
I2S_DA_OUT
I2S_DA_WS
I2S_DA_CL
MUTE
A_MUTE
MUTE_AUDIO
L_APRO
R_APRO
L_APRO_HP
R_APRO_HP
AC_DETECT
SV1
EXT_MUTE
DET_HP
DET1_HP
Q673
2SA1162-Y
Q660
KTC4075Y-RTK
Q661
KTC4075Y-RTK
Q662
RN2404 ITE85L,FI
Q663
KTC4075Y-RTK
Q682
RN2404 ITE85L,FI
Q675
KTC2875B-RTK
Q676
KTC2875B-RTK
X001
18.432MHz
1-D4
1-D7
1-B4
2-D4
2-E4
2-F4
10-C2
2-B6
2-C5
2-D4
2-E4
12-C3
3-B2
1-B2

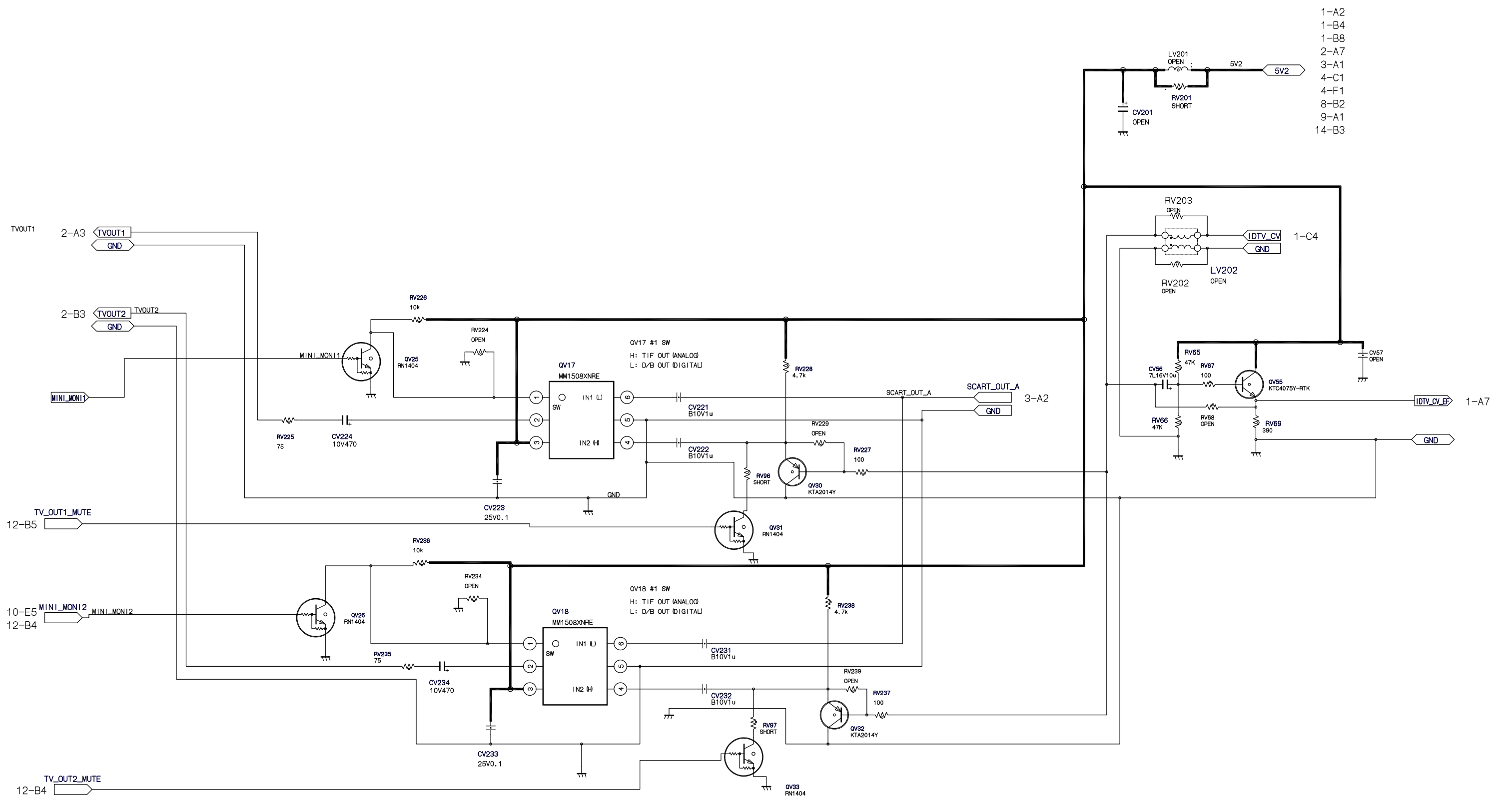
U03A AV_TERMINAL [4] MTS_HP_APRO_AOUT (PE0250)


RS110
SHORT
RS111
SHORT
5-B1
10-D2
R_IDTV
R_IDTV
GND
GND
5-B1
10-D2
L_IDTV
L_IDTV
R_IDTV_
R_IDTV_
1-C4
GND
L_IDTV_
L_IDTV_
1-C4
TO PL212
CS35
OPEN
CS32
OPEN
CS92
OPEN
RS90
OPEN
RS92
OPEN
1-A1
1-B4
4-A1
6-A4
9V
CS33
OPEN
RS94
OPEN
RS95
OPEN
8
7
6
5
VCC
QS27
OPEN
RS96
OPEN
RS97
OPEN
VEE
DS11
OPEN
CS34
OPEN
1
2
3
4
RS93
OPEN
RS89
OPEN
RS91
OPEN
CS91
OPEN

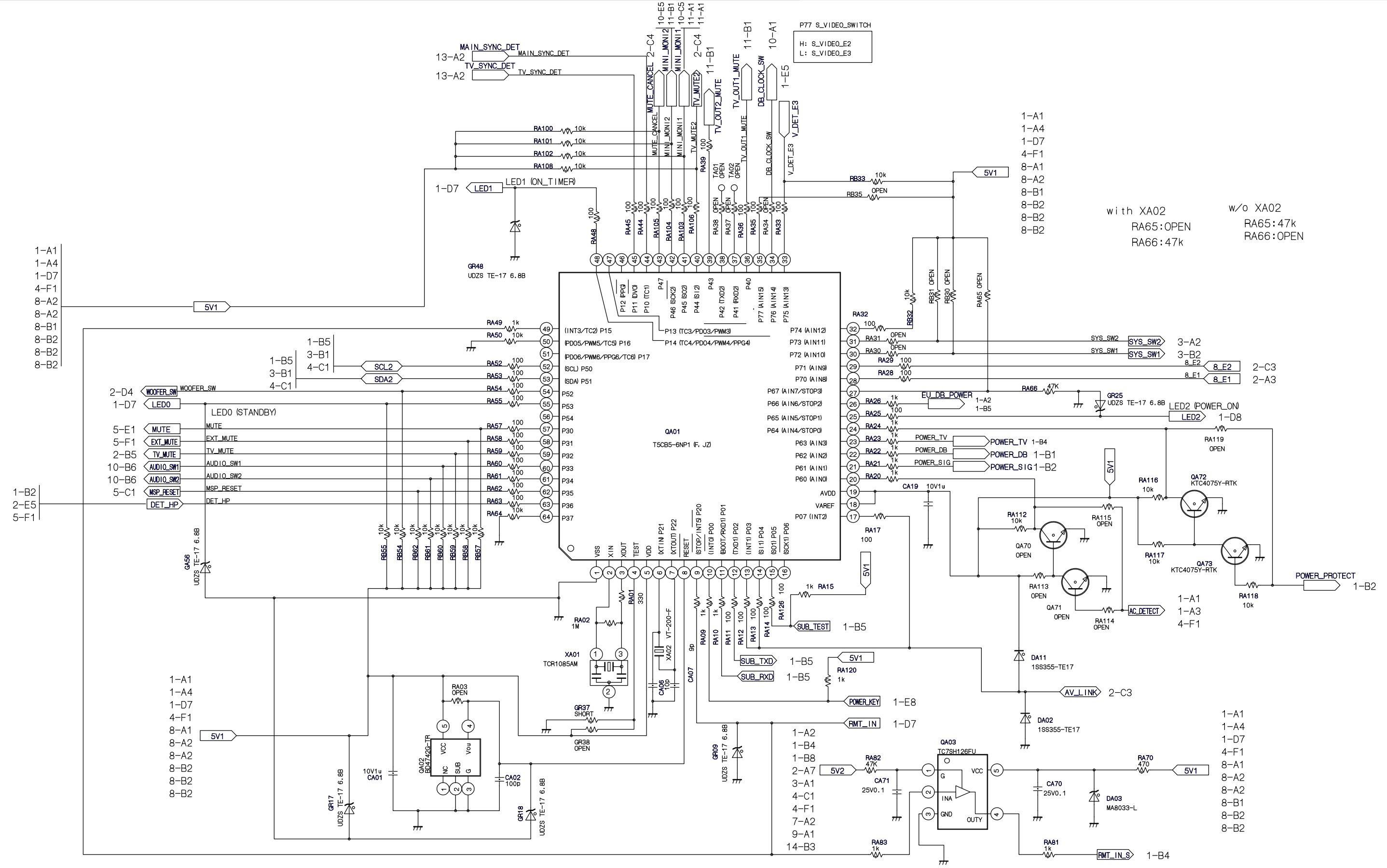
U03A AV_TERMINAL [5] EU_DIGITAL_RECEIVE CIRCUIT (PE0250)


1-A1
1-B4
4-A1
12-A1
9V
RS07 10k
RS08 10k
CS04 50V 47u
QS01
CD4052BNSR
Y0
Y2
Y-OUT
Y3
Y1
INH
VEE
VSS
VDD
X2
X1
X-OUT
X0
X3
A
B
RS01 47K
RS02 47K
RS03 47K
RS04 100
RS05 100
RS06 100
CS01 B16V2.2u_K
CS02 B16V2.2u_K
CS03 B16V2.2u_K
RS09 47K
RS10 47K
RS11 47K
RS12 100
RS13 100
RS14 100
CS05 B16V2.2u_K
CS06 B16V2.2u_K
CS07 B16V2.2u_K
R_E4
R_E4 5-B1
L_E4
L_E4 5-B1
RS15 47K
RS16 47K
AUDIO_SW1
AUDIO_SW1 12-C3
QS04 RN1404
QS05 RN1404
AUDIO_SW2
AUDIO_SW2 12-C3
1-E5 R_FRONT_CS
R_FRONT_CS
1-E5 L_FRONT_CS
L_FRONT_CS
GND
1-A8 R_HDMI_D
R_HDMI_D
1-A8 L_HDMI_D
L_HDMI_D
2-E2 R_HDMI_A_PC
R_HDMI_A_PC
2-E2 L_HDMI_A_PC
L_HDMI_A_PC
QS02
CD4053BNSR
Vdd
Vee
Vss
INH
A
B
C
H
L
RS17 100K
RS18 47K
RS19 100
RS20 100
CS08 B16V2.2u_K
CS09 B16V2.2u_K
RS21 39k
RS22 39k
CS10 50V 47u
RS23 47K
RS24 100K
RS25 100
RS26 100
CS11 B16V2.2u_K
CS12 B16V2.2u_K
RS27 47K
QS06 RN1404
MINI_MONI1
MINI_MONI1 11-A1
11-A1
12-B4
CS13 50V4.7
RS28 39k
RS29 56k
RS34 100
QS08 KTC4075Y-RTK
RS30 2.2k
CS15 7L16V10u
R_TV1
R_TV1 2-B5
CS14 50V4.7
RS31 39k
RS32 56k
RS35 100
QS09 KTC4075Y-RTK
RS33 2.2k
CS16 7L16V10u
L_TV1
L_TV1 2-B5
5-E8 L_ATV
L_ATV
5-E8 R_ATV
R_ATV
5-B1 6-A1 L_IDTV
L_IDTV
5-B1 6-A1 R_IDTV
R_IDTV
QS03
CD4053BNSR
RS36 100K
RS37 47K
RS38 100
RS39 100
CS17 B16V2.2u_K
CS18 B16V2.2u_K
RS40 39k
RS41 39k
CS19 50V 47u
RS42 47K
RS43 100K
RS44 100
RS45 100
CS20 B16V2.2u_K
CS21 B16V2.2u_K
RS46 47K
QS07 RN1404
MINI_MONI2
MINI_MONI2 11-B1
12-B4
CS22 50V4.7
RS47 39k
RS48 56k
RS50 100
QS10 KTC4075Y-RTK
RS49 2.2k
CS24 7L16V10u
R_TV2
R_TV2 2-C4
CS23 50V4.7
RS51 39k
RS52 56k
RS53 100
QS11 KTC4075Y-RTK
RS54 2.2k
CS25 7L16V10u
L_TV2
L_TV2 2-C4

U03A AV_TERMINAL [6] AUDIO_SW (PE0250)

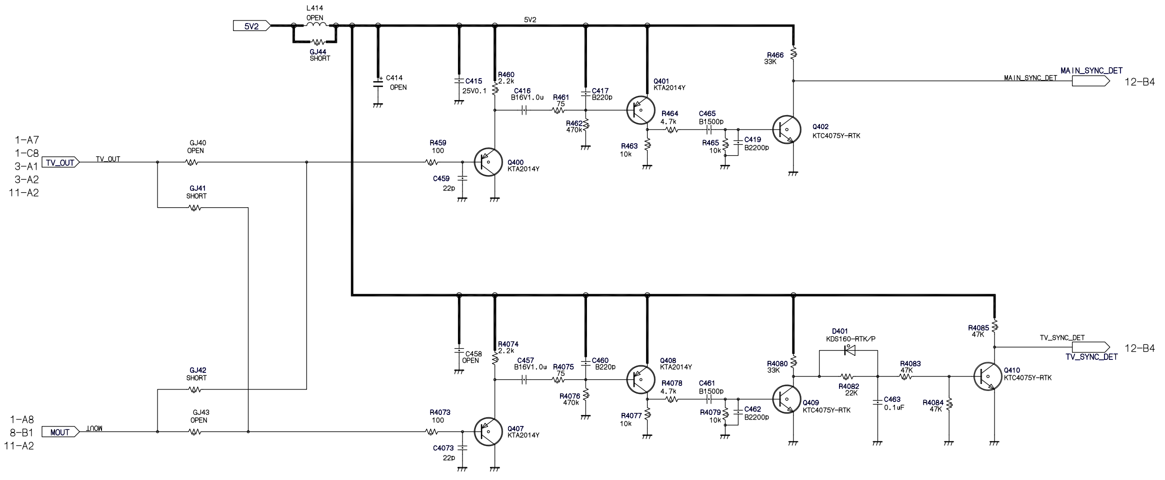

1-A2
1-B4
1-B8
2-A7
3-A1
4-C1
4-F1
8-B2
9-A1
14-B3
LV201
OPEN
5V2
5V2
RV201
SHORT
CV201
OPEN
RV203
OPEN
IDTV_CV
GND
1-C4
LV202
OPEN
RV202
OPEN
TVOUT1
2-A3
TVOUT1
GND
2-B3
TVOUT2
TVOUT2
GND
MINI_MONI1
MINI_MONI1
RV226
10k
RV224
OPEN
QV25
RN1404
QV17 #1 SW
H: TIF OUT (ANALOG)
L: D/B OUT (DIGITAL)
QV17
MM1508XNRE
SW
IN1 (L)
IN2 (H)
1
2
3
4
5
6
RV225
75
CV224
10V470
CV221
B10V1u
CV222
B10V1u
CV223
25V0.1
GND
RV228
4.7k
RV229
OPEN
RV227
100
RV96
SHORT
QV30
KTA2014Y
SCART_OUT_A
SCART_OUT_A
GND
3-A2
CV56
7L16V10u
RV65
47K
RV67
100
QV55
KTC4075Y-RTK
CV57
OPEN
RV66
47K
RV68
OPEN
RV69
390
IDTV_CV_EF
1-A7
GND
TV_OUT1_MUTE
12-B5
QV31
RN1404
RV236
10k
RV234
OPEN
QV18 #1 SW
H: TIF OUT (ANALOG)
L: D/B OUT (DIGITAL)
QV18
MM1508XNRE
RV238
4.7k
10-E5
12-B4
MINI_MONI2
MINI_MONI2
QV26
RN1404
RV235
75
CV234
10V470
CV231
B10V1u
CV232
B10V1u
RV239
OPEN
RV237
100
RV97
SHORT
QV32
KTA2014Y
CV233
25V0.1
TV_OUT2_MUTE
12-B4
QV33
RN1404

U03A AV_TERMINAL [7] TV-OUT&MONI-OUT (PE0250)

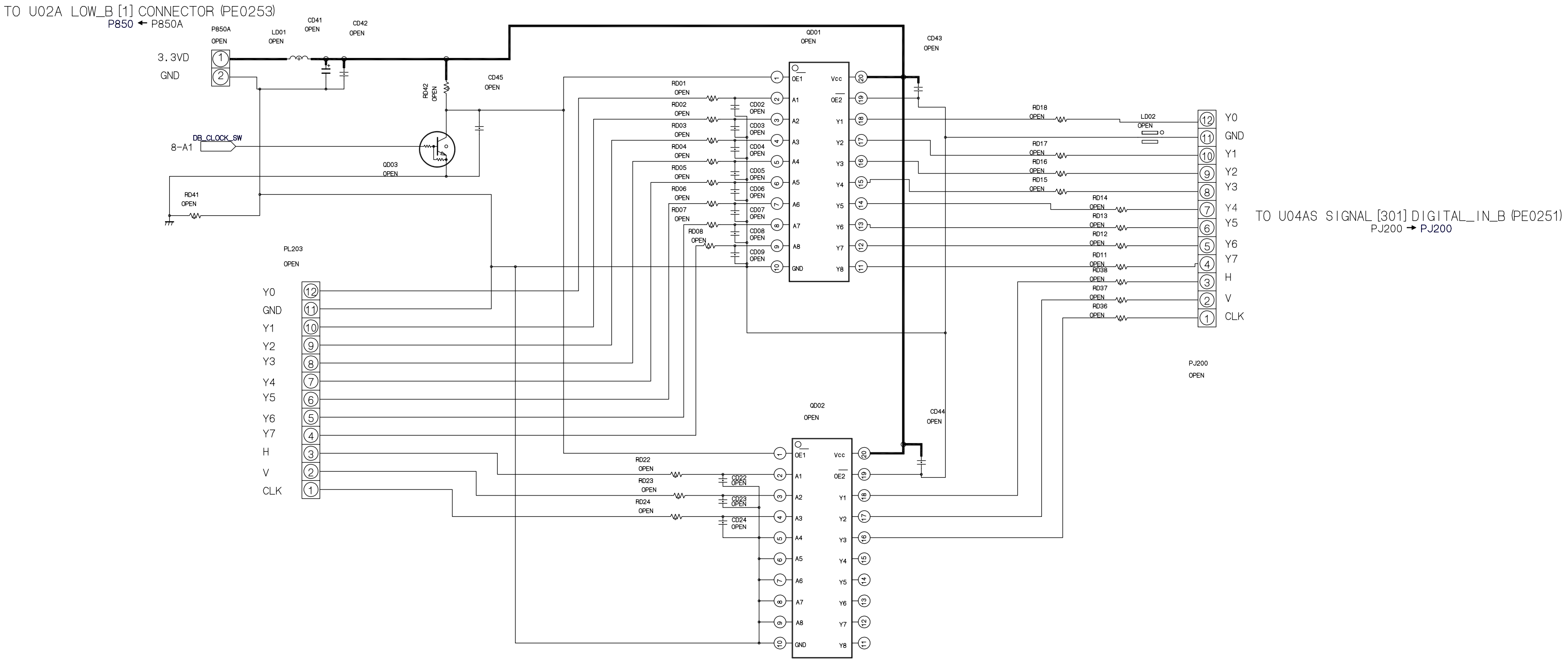


MAIN_SYNC_DET
TV_SYNC_DET
13-A2
MUTE_CANCEL
MINI_MONI2
MINI_MONI1
TV_MUTE2
TV_OUT2_MUTE
TV_OUT1_MUTE
DB_CLOCK_SW
V_DET_E3
P77 S_VIDEO_SWITCH
H: S_VIDEO_E2
L: S_VIDEO_E3
LED1 (ON_TIMER)
GR48 UDZS TE-17 6.8B
5V1
with XA02
RA65:OPEN
RA66:47k
w/o XA02
RA65:47k
RA66:OPEN
QA01
T5CB5-6NP1 (F, JZ)
SCL2
SDA2
WOOFER_SW
LED0
LED0 (STANDBY)
MUTE
EXT_MUTE
TV_MUTE
AUDIO_SW1
AUDIO_SW2
MSP_RESET
DET_HP
SYS_SW2
SYS_SW1
8_E2
8_E1
EU_DB_POWER
LED2 (POWER_ON)
POWER_TV
POWER_DB
POWER_SIG
QA72 KTC4075Y-RTK
QA73 KTC4075Y-RTK
QA70 OPEN
QA71 OPEN
POWER_PROTECT
AC_DETECT
AV_LINK
DA11 1SS355-TE17
DA02 1SS355-TE17
SUB_TEST
SUB_TXD
SUB_RXD
POWER_KEY
RMT_IN
RMT_IN_S
XA01 TCR1085AM
XA02 VT-200-F
QA02 RN5VT42AA-TR
GR17 UDZS TE-17 6.8B
GR18 UDZS TE-17 6.8B
GR09 UDZS TE-17 6.8B
GA56 UDZS TE-17 6.8B
QA03 TC7SH126FU
DA03 MA8033-L
5V2

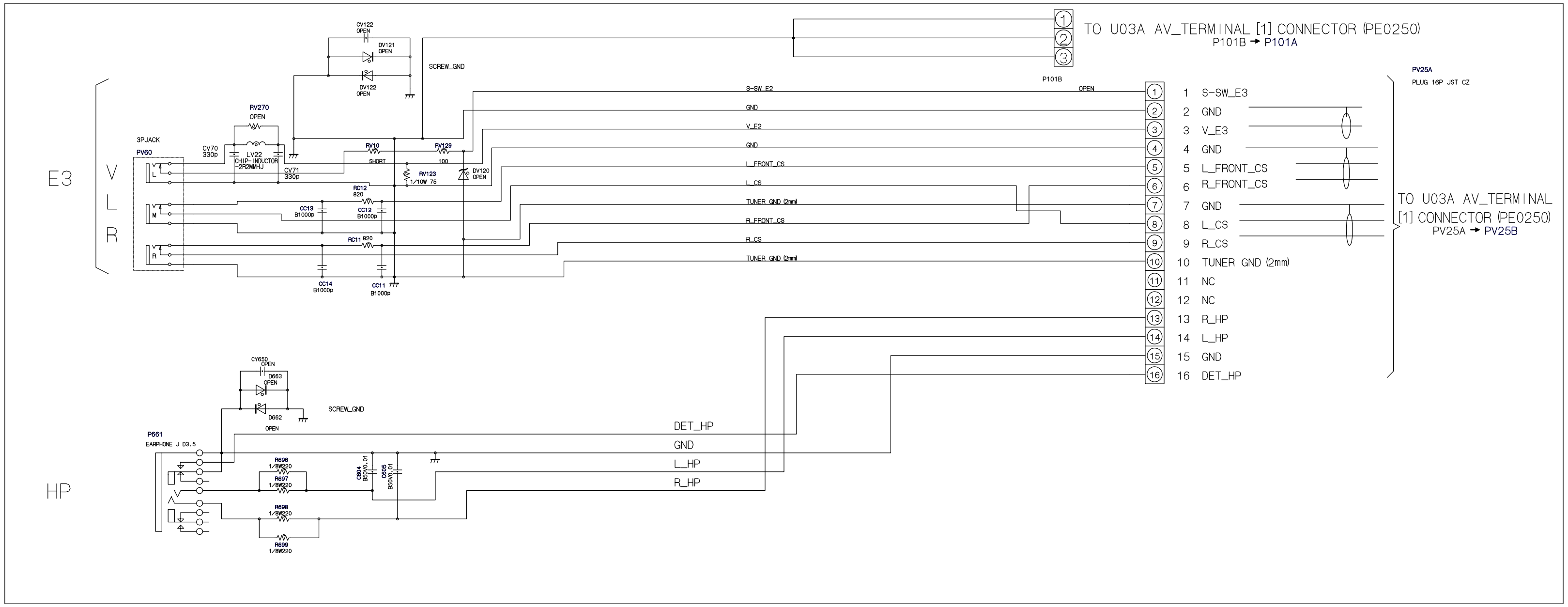
U03A AV_TERMINAL [8] STANDBY MICRO (PE0250)


5V2
L414
OPEN
GJ44
SHORT
5V2
C414
OPEN
C415
25V0.1
R460
2.2k
C416
B16V1.0u
R461
75
C417
B220p
R462
470k
Q401
KTA2014Y
R464
4.7k
R463
10k
C465
B1500p
R465
10k
C419
B2200p
Q402
KTC4075Y-RTK
R466
33K
MAIN_SYNC_DET
MAIN_SYNC_DET
12-B4
1-A7
1-C8
3-A1
3-A2
11-A2
TV_OUT
TV_OUT
GJ40
OPEN
GJ41
SHORT
R459
100
C459
22p
Q400
KTA2014Y
C458
OPEN
R4074
2.2k
C457
B16V1.0u
R4075
75
C460
B220p
R4076
470k
Q408
KTA2014Y
R4078
4.7k
R4077
10k
C461
B1500p
R4079
10k
C462
B2200p
R4080
33K
Q409
KTC4075Y-RTK
D401
KDS160-RTK/P
R4082
22K
C463
0.1uF
R4083
47K
R4084
47K
R4085
47K
Q410
KTC4075Y-RTK
TV_SYNC_DET
TV_SYNC_DET
12-B4
GJ42
SHORT
GJ43
OPEN
1-A8
8-B1
11-A2
MOUT
MOUT
R4073
100
C4073
22p
Q407
KTA2014Y

U03A AV_TERMINAL [9] SYNC_DET (PE0250)


TO U02A LOW_B [1] CONNECTOR (PE0253)
P850 ← P850A
P850A
OPEN
3.3VD
GND
1
2
LD01
OPEN
CD41
OPEN
CD42
OPEN
RD42
OPEN
CD45
OPEN
DB_CLOCK_SW
8-A1
QD03
OPEN
RD41
OPEN
PL203
OPEN
Y0
GND
Y1
Y2
Y3
Y4
Y5
Y6
Y7
H
V
CLK
12
11
10
9
8
7
6
5
4
3
2
1
QD01
OPEN
RD01
OPEN
RD02
OPEN
RD03
OPEN
RD04
OPEN
RD05
OPEN
RD06
OPEN
RD07
OPEN
RD08
OPEN
CD02
OPEN
CD03
OPEN
CD04
OPEN
CD05
OPEN
CD06
OPEN
CD07
OPEN
CD08
OPEN
CD09
OPEN
OE1
A1
A2
A3
A4
A5
A6
A7
A8
GND
Vcc
OE2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
CD43
OPEN
RD18
OPEN
LD02
OPEN
RD17
OPEN
RD16
OPEN
RD15
OPEN
RD14
OPEN
RD13
OPEN
RD12
OPEN
RD11
OPEN
RD38
OPEN
RD37
OPEN
RD36
OPEN
Y0
GND
Y1
Y2
Y3
Y4
Y5
Y6
Y7
H
V
CLK
TO U04AS SIGNAL [301] DIGITAL_IN_B (PE0251)
PJ200 → PJ200
PJ200
OPEN
QD02
OPEN
CD44
OPEN
RD22
OPEN
RD23
OPEN
RD24
OPEN
CD22
OPEN
CD23
OPEN
CD24
OPEN
OE1
A1
A2
A3
A4
A5
A6
A7
A8
GND
Vcc
OE2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
A
B

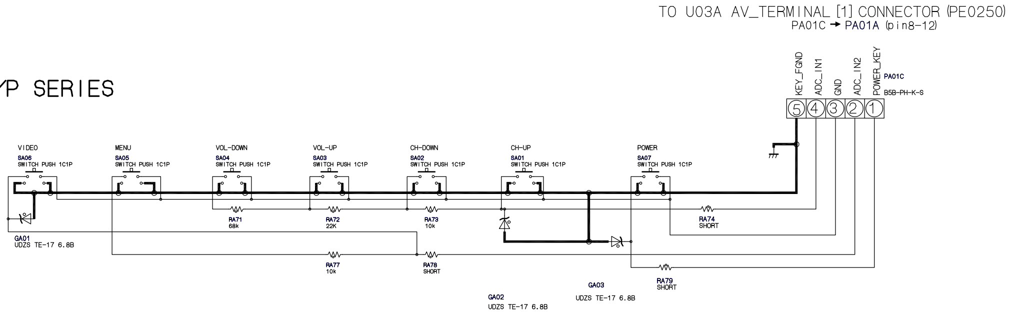
U03A AV_TERMINAL [10] EU_DIGITAL_INTERFACE PL203 SWITCH (PE0250)


TO U03A AV_TERMINAL [1] CONNECTOR (PE0250)
P101B → P101A
P101B
CV122
OPEN
DV121
OPEN
DV122
OPEN
SCREW_GND
E3
V
L
R
3PJACK
PV60
L
M
R
RV270
OPEN
CV70
330p
LV22
CHIP-INDUCTOR
-2R2MMHJ
CV71
330p
RV10
SHORT
RV129
100
RV123
1/10W 75
DV120
OPEN
RC12
820
CC13
B1000p
CC12
B1000p
RC11 820
CC14
B1000p
CC11
B1000p
S-SW_E2
GND
V_E2
GND
L_FRONT_CS
L_CS
TUNER GND (2mm)
R_FRONT_CS
R_CS
TUNER GND (2mm)
OPEN
PV25A
PLUG 16P JST CZ
1 S-SW_E3
2 GND
3 V_E3
4 GND
5 L_FRONT_CS
6 R_FRONT_CS
7 GND
8 L_CS
9 R_CS
10 TUNER GND (2mm)
11 NC
12 NC
13 R_HP
14 L_HP
15 GND
16 DET_HP
TO U03A AV_TERMINAL
[1] CONNECTOR (PE0250)
PV25A → PV25B
HP
CY650
OPEN
D663
OPEN
D662
OPEN
SCREW_GND
P661
EARPHONE J D3.5
R696
1/8W220
R697
1/8W220
R698
1/8W220
R699
1/8W220
C604
B50V0.01
C605
B50V0.01
DET_HP
GND
L_HP
R_HP

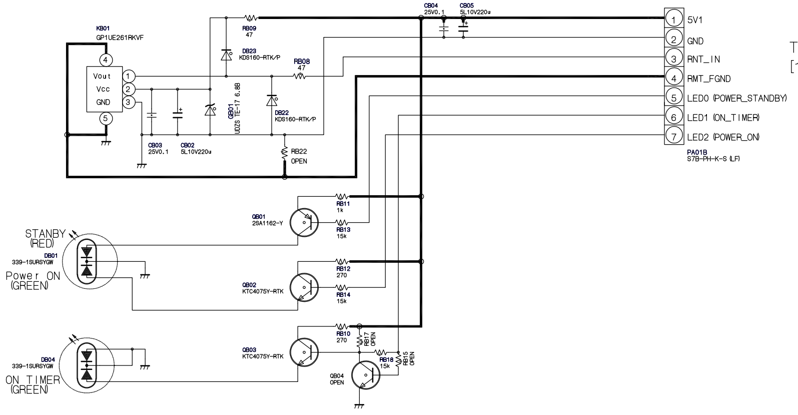
U03B FRONT_AV [11] FRONT-AV (PE0250)

U03D

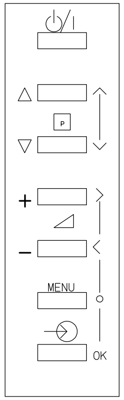
for C3000D/P SERIES

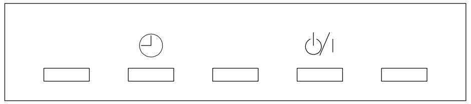

TO U03A AV_TERMINAL [1] CONNECTOR (PE0250)
PA01C → PA01A (pin8-12)
KEY_FGND
ADC_IN1
GND
ADC_IN2
POWER_KEY
PA01C
B5B-PH-K-S
VIDEO
SA06
SWITCH PUSH 1C1P
MENU
SA05
SWITCH PUSH 1C1P
VOL-DOWN
SA04
SWITCH PUSH 1C1P
VOL-UP
SA03
SWITCH PUSH 1C1P
CH-DOWN
SA02
SWITCH PUSH 1C1P
CH-UP
SA01
SWITCH PUSH 1C1P
POWER
SA07
SWITCH PUSH 1C1P
RA71
68k
RA72
22K
RA73
10k
RA74
SHORT
GA01
UDZS TE-17 6.8B
RA77
10k
RA78
SHORT
RA79
SHORT
GA03
UDZS TE-17 6.8B
GA02
UDZS TE-17 6.8B

U03C

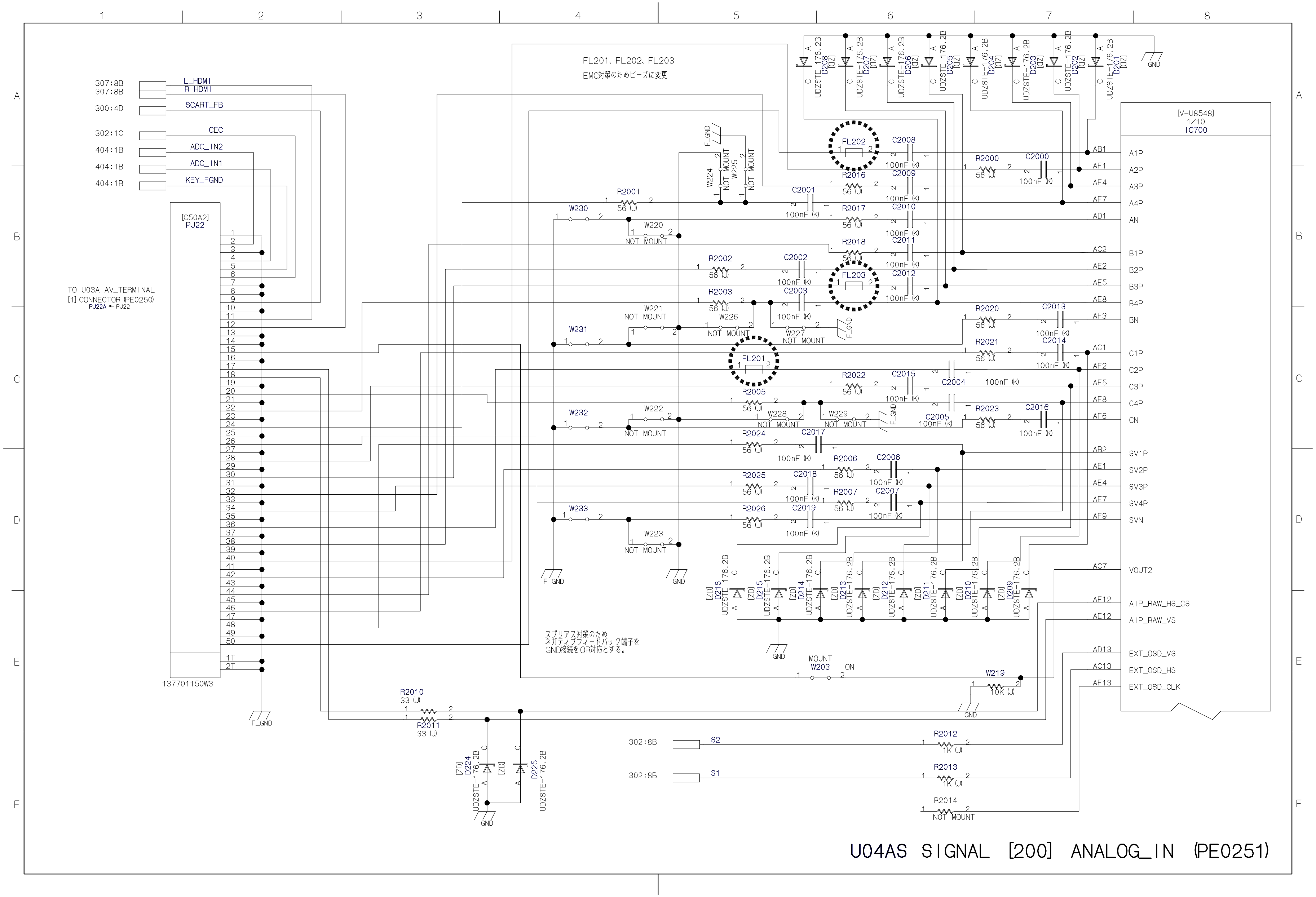

KB01
GP1UE261RKVF
Vout
Vcc
GND
RB09
47
DB23
KDS160-RTK/P
RB08
47
GB01
UDZS TE-17 6.8B
DB22
KDS160-RTK/P
CB03
25V0.1
CB02
5L10V220u
RB22
OPEN
CB04
25V0.1
CB05
5L10V220u
5V1
GND
RNT_IN
RMT_FGND
LED0 (POWER_STANDBY)
LED1 (ON_TIMER)
LED2 (POWER_ON)
PA01B
S7B-PH-K-S (LF)
STANBY
(RED)
DB01
339-1SURSYGW
Power ON
(GREEN)
QB01
2SA1162-Y
RB11
1k
RB13
15k
QB02
KTC4075Y-RTK
RB12
270
RB14
15k
QB03
KTC4075Y-RTK
RB10
270
RB17
OPEN
RB18
15k
RB15
OPEN
QB04
OPEN
DB04
339-1SURSYGW
ON TIMER
(GREEN)

TO U03A AV_TERMINAL
[1] CONNECTOR (PE0250)
PA01B → PA01A (pin1-7)

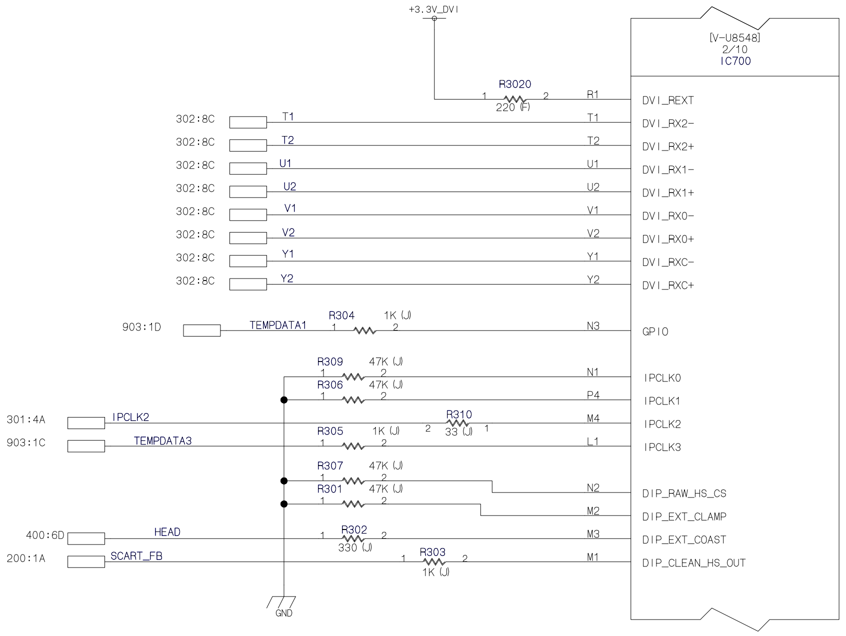




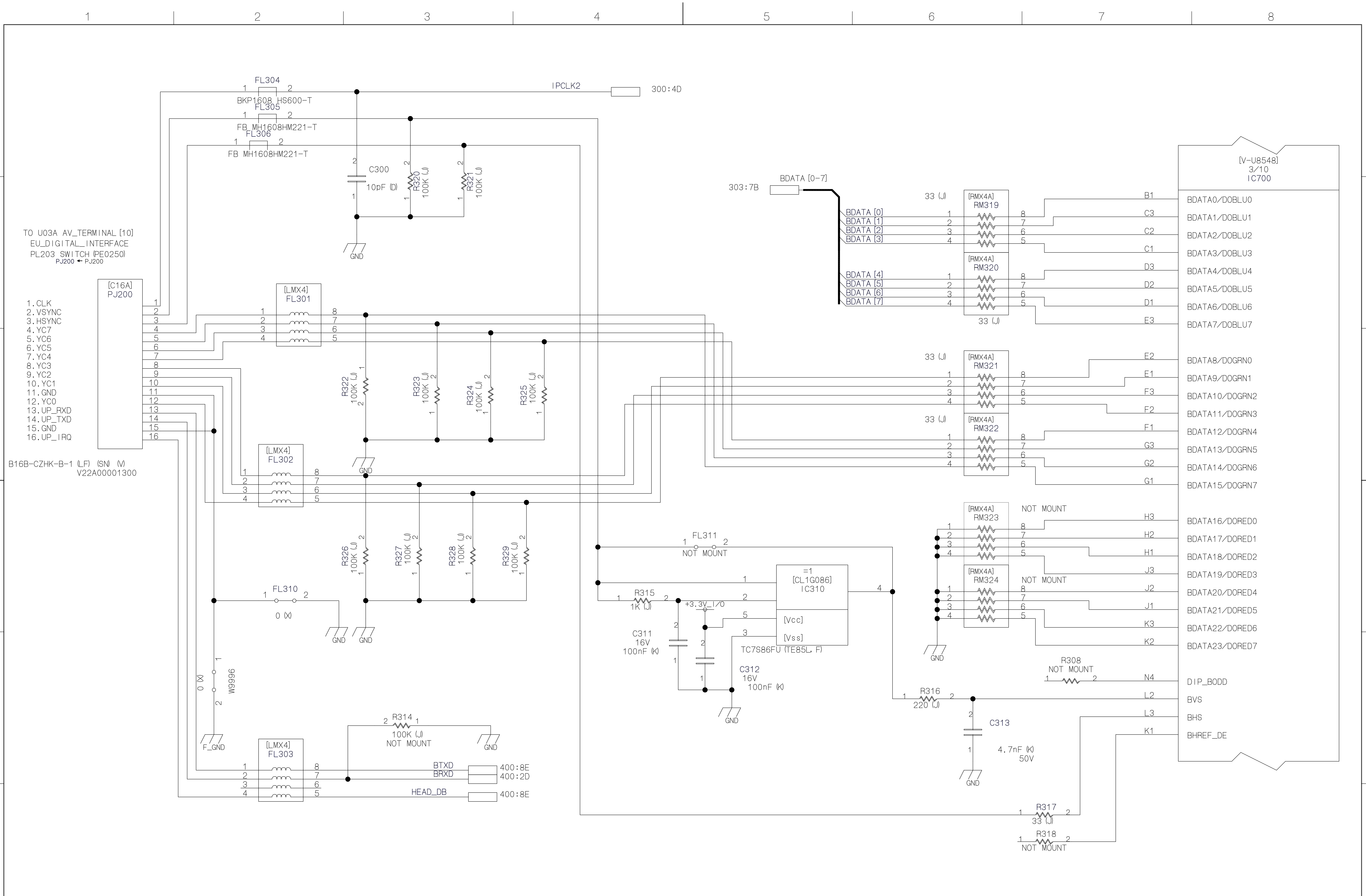
U03C/D LED/KEY [12] KEY & LED (PE0250)


FL201、FL202、FL203
EMC対策のためビーズに変更
307:8B L_HDMI
307:8B R_HDMI
300:4D SCART_FB
302:1C CEC
404:1B ADC_IN2
404:1B ADC_IN1
404:1B KEY_FGND
[C50A2]
PJ22
TO U03A AV_TERMINAL
[1] CONNECTOR (PE0250)
PJ22A ← PJ22
1T
2T
137701150W3
F_GND
W230
W231
W232
W233
W220 NOT MOUNT
W221 NOT MOUNT
W222 NOT MOUNT
W223 NOT MOUNT
W224 NOT MOUNT
W225 NOT MOUNT
W226 NOT MOUNT
W227 NOT MOUNT
W228 NOT MOUNT
W229 NOT MOUNT
R2001 56 (J)
R2002 56 (J)
R2003 56 (J)
R2005 56 (J)
R2016 56 (J)
R2017 56 (J)
R2018 56 (J)
R2000 56 (J)
R2020 56 (J)
R2021 56 (J)
R2022 56 (J)
R2023 56 (J)
R2024 56 (J)
R2025 56 (J)
R2026 56 (J)
R2006 56 (J)
R2007 56 (J)
C2000 100nF (K)
C2001 100nF (K)
C2002 100nF (K)
C2003 100nF (K)
C2004 100nF (K)
C2005 100nF (K)
C2006 100nF (K)
C2007 100nF (K)
C2008 100nF (K)
C2009 100nF (K)
C2010 100nF (K)
C2011 100nF (K)
C2012 100nF (K)
C2013 100nF (K)
C2014 100nF (K)
C2015 100nF (K)
C2016 100nF (K)
C2017 100nF (K)
C2018 100nF (K)
C2019 100nF (K)
FL201
FL202
FL203
D201 [DZ] UDZSTE-176.2B
D202 [DZ] UDZSTE-176.2B
D203 [DZ] UDZSTE-176.2B
D204 [DZ] UDZSTE-176.2B
D205 [DZ] UDZSTE-176.2B
D206 [DZ] UDZSTE-176.2B
D207 [DZ] UDZSTE-176.2B
D208 [DZ] UDZSTE-176.2B
D209 [ZD] UDZSTE-176.2B
D210 [ZD] UDZSTE-176.2B
D211 [ZD] UDZSTE-176.2B
D212 [ZD] UDZSTE-176.2B
D213 [ZD] UDZSTE-176.2B
D214 [ZD] UDZSTE-176.2B
D215 [ZD] UDZSTE-176.2B
D216 [ZD] UDZSTE-176.2B
GND
[V-U8548]
1/10
IC700
AB1 A1P
AF1 A2P
AF4 A3P
AF7 A4P
AD1 AN
AC2 B1P
AE2 B2P
AE5 B3P
AE8 B4P
AF3 BN
AC1 C1P
AF2 C2P
AF5 C3P
AF8 C4P
AF6 CN
AB2 SV1P
AE1 SV2P
AE4 SV3P
AE7 SV4P
AF9 SVN
AC7 VOUT2
AF12 AIP_RAW_HS_CS
AE12 AIP_RAW_VS
AD13 EXT_OSD_VS
AC13 EXT_OSD_HS
AF13 EXT_OSD_CLK
スプリアス対策のため
ネガティブフィードバック端子を
GND接続をOR対応とする。
MOUNT
W203
ON
W219
10K (J)
R2010 33 (J)
R2011 33 (J)
D224 [ZD] UDZSTE-176.2B
D225 [ZD] UDZSTE-176.2B
302:8B S2
302:8B S1
R2012 1K (J)
R2013 1K (J)
R2014 NOT MOUNT

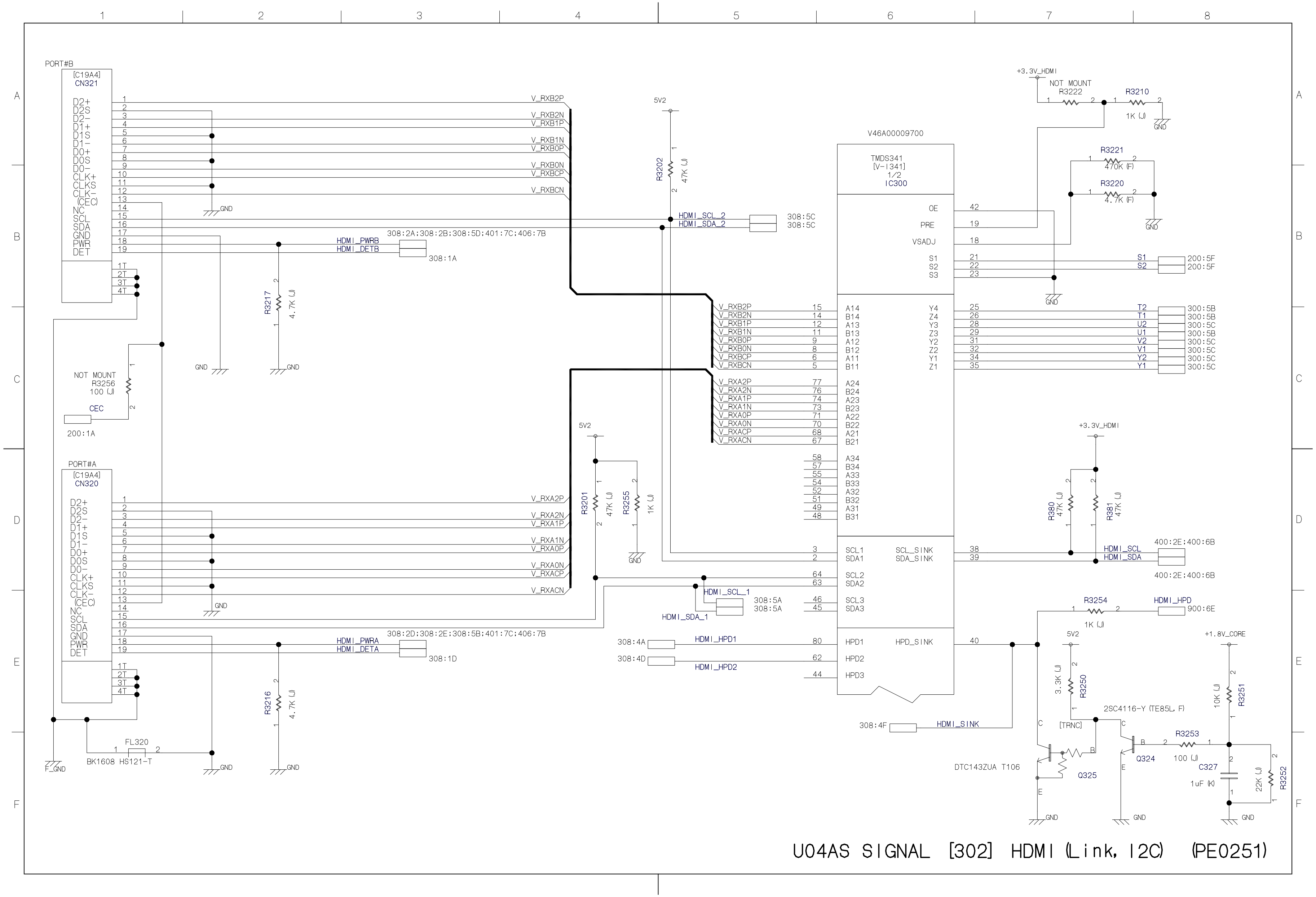
U04AS SIGNAL [200] ANALOG_IN (PE0251)


+3.3V_DVI
[V-U8548]
2/10
IC700
R3020
220 (F)
302:8C
T1
T2
U1
U2
V1
V2
Y1
Y2
DVI_REXT
DVI_RX2-
DVI_RX2+
DVI_RX1-
DVI_RX1+
DVI_RX0-
DVI_RX0+
DVI_RXC-
DVI_RXC+
R1
903:1D
TEMPDATA1
R304
1K (J)
N3
GPIO
R309
47K (J)
N1
IPCLK0
R306
47K (J)
P4
IPCLK1
301:4A
IPCLK2
R310
33 (J)
M4
IPCLK2
903:1C
TEMPDATA3
R305
1K (J)
L1
IPCLK3
R307
47K (J)
N2
DIP_RAW_HS_CS
R301
47K (J)
M2
DIP_EXT_CLAMP
400:6D
HEAD
R302
330 (J)
M3
DIP_EXT_COAST
200:1A
SCART_FB
R303
1K (J)
M1
DIP_CLEAN_HS_OUT
GND

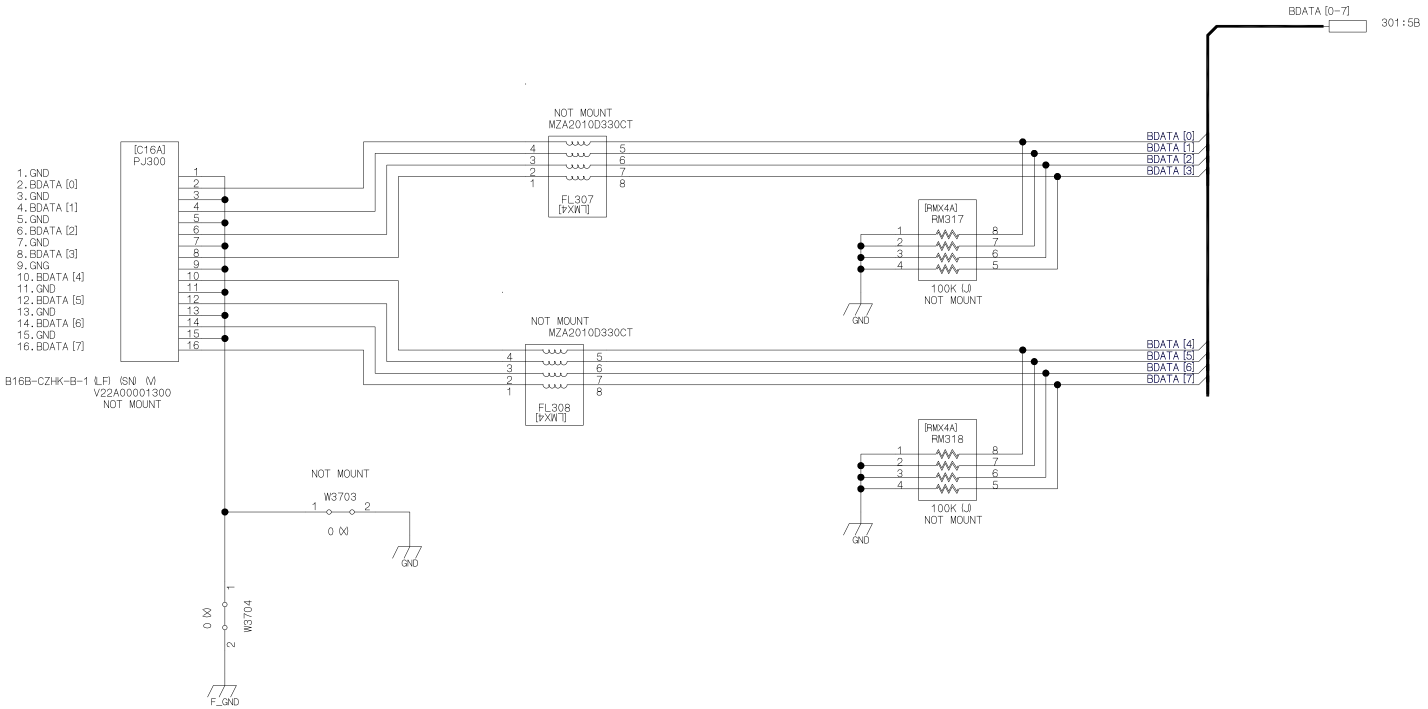
U04AS SIGNAL [300] HDMI TMDS-IN (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
FL304
BKP1608 HS600-T
FL305
FB MH1608HM221-T
FL306
FB MH1608HM221-T
IPCLK2
300:4D
C300
10pF (D)
R320
100K (J)
R321
100K (J)
GND
TO U03A AV_TERMINAL [10]
EU_DIGITAL_INTERFACE
PL203 SWITCH (PE0250)
PJ200 ← PJ200
[C16A]
PJ200
1.CLK
2.VSYNC
3.HSYNC
4.YC7
5.YC6
6.YC5
7.YC4
8.YC3
9.YC2
10.YC1
11.GND
12.YC0
13.UP_RXD
14.UP_TXD
15.GND
16.UP_IRQ
B16B-CZHK-B-1 (LF) (SN) (V)
V22A00001300
[LMX4]
FL301
R322
100K (J)
R323
100K (J)
R324
100K (J)
R325
100K (J)
[LMX4]
FL302
R326
100K (J)
R327
100K (J)
R328
100K (J)
R329
100K (J)
FL310
0 (X)
W9996
0 (X)
F_GND
R314
100K (J)
NOT MOUNT
[LMX4]
FL303
BTXD
BRXD
HEAD_DB
400:8E
400:2D
400:8E
303:7B
BDATA [0-7]
BDATA [0]
BDATA [1]
BDATA [2]
BDATA [3]
BDATA [4]
BDATA [5]
BDATA [6]
BDATA [7]
33 (J)
[RMX4A]
RM319
[RMX4A]
RM320
33 (J)
33 (J)
[RMX4A]
RM321
33 (J)
[RMX4A]
RM322
[RMX4A]
RM323
NOT MOUNT
[RMX4A]
RM324
NOT MOUNT
GND
FL311
NOT MOUNT
R315
1K (J)
+3.3V_I/O
=1
[CL1G086]
IC310
[Vcc]
[Vss]
TC7S86FU (TE85L, F)
C311
16V
100nF (K)
C312
16V
100nF (K)
GND
R316
220 (J)
C313
4.7nF (K)
50V
GND
R308
NOT MOUNT
R317
33 (J)
R318
NOT MOUNT
[V-U8548]
3/10
IC700
B1 BDATA0/DOBLU0
C3 BDATA1/DOBLU1
C2 BDATA2/DOBLU2
C1 BDATA3/DOBLU3
D3 BDATA4/DOBLU4
D2 BDATA5/DOBLU5
D1 BDATA6/DOBLU6
E3 BDATA7/DOBLU7
E2 BDATA8/DOGRN0
E1 BDATA9/DOGRN1
F3 BDATA10/DOGRN2
F2 BDATA11/DOGRN3
F1 BDATA12/DOGRN4
G3 BDATA13/DOGRN5
G2 BDATA14/DOGRN6
G1 BDATA15/DOGRN7
H3 BDATA16/DORED0
H2 BDATA17/DORED1
H1 BDATA18/DORED2
J3 BDATA19/DORED3
J2 BDATA20/DORED4
J1 BDATA21/DORED5
K3 BDATA22/DORED6
K2 BDATA23/DORED7
N4 DIP_BODD
L2 BVS
L3 BHS
K1 BHREF_DE

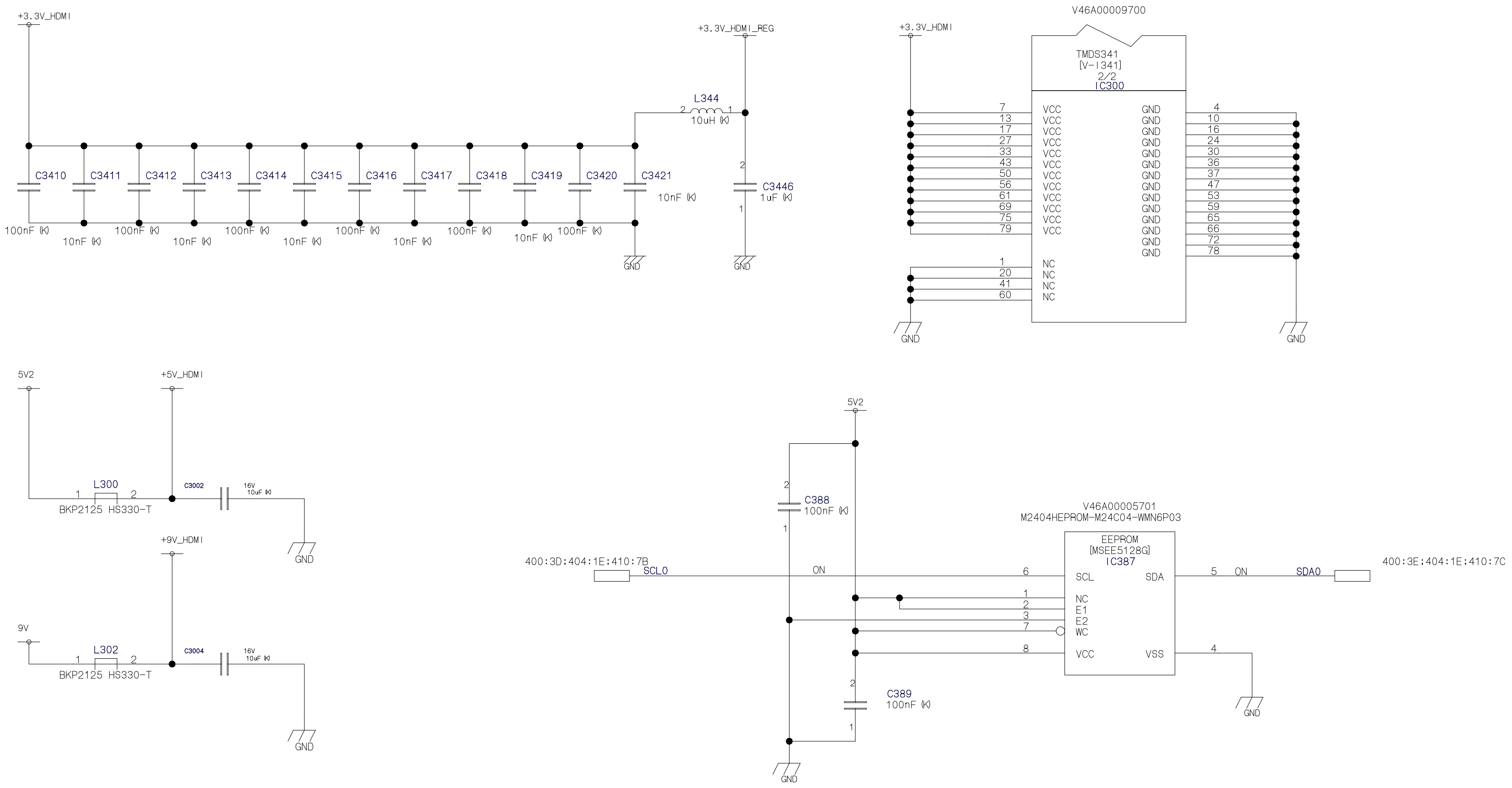
U04AS SIGNAL [301] DIGITAL_IN_B (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
PORT#B
[C19A4]
CN321
D2+
D2S
D2-
D1+
D1S
D1-
D0+
D0S
D0-
CLK+
CLKS
CLK-
(CEC)
NC
SCL
SDA
GND
PWR
DET
1T
2T
3T
4T
V_RXB2P
V_RXB2N
V_RXB1P
V_RXB1N
V_RXB0P
V_RXB0N
V_RXBCP
V_RXBCN
GND
HDMI_PWRB
HDMI_DETB
308:2A;308:2B;308:5D;401:7C;406:7B
308:1A
R3217
4.7K (J)
NOT MOUNT
R3256
100 (J)
CEC
200:1A
5V2
R3202
47K (J)
HDMI_SCL_2
HDMI_SDA_2
308:5C
308:5C
V46A00009700
TMDS341
[V-I341]
1/2
IC300
OE
PRE
VSADJ
S1
S2
S3
SCL_SINK
SDA_SINK
HPD_SINK
SCL1
SDA1
SCL2
SDA2
SCL3
SDA3
HPD1
HPD2
HPD3
+3.3V_HDMI
NOT MOUNT
R3222
R3210
1K (J)
R3221
470K (F)
R3220
4.7K (F)
S1
S2
200:5F
200:5F
T2
T1
U2
U1
V2
V1
Y2
Y1
300:5B
300:5B
300:5C
300:5B
300:5C
300:5C
300:5C
300:5C
PORT#A
[C19A4]
CN320
V_RXA2P
V_RXA2N
V_RXA1P
V_RXA1N
V_RXA0P
V_RXA0N
V_RXACP
V_RXACN
R3201
47K (J)
R3255
1K (J)
HDMI_SCL_1
HDMI_SDA_1
308:5A
308:5A
HDMI_PWRA
HDMI_DETA
308:2D;308:2E;308:5B;401:7C;406:7B
308:1D
R3216
4.7K (J)
FL320
BK1608 HS121-T
F_GND
308:4A
308:4D
HDMI_HPD1
HDMI_HPD2
308:4F
HDMI_SINK
R380
47K (J)
R381
47K (J)
HDMI_SCL
HDMI_SDA
400:2E;400:6B
400:2E;400:6B
R3254
1K (J)
HDMI_HPD
900:6E
R3250
3.3K (J)
2SC4116-Y (TE85L, F)
[TRNC]
Q324
Q325
DTC143ZUA T106
R3253
100 (J)
+1.8V_CORE
R3251
10K (J)
C327
1uF (K)
R3252
22K (J)

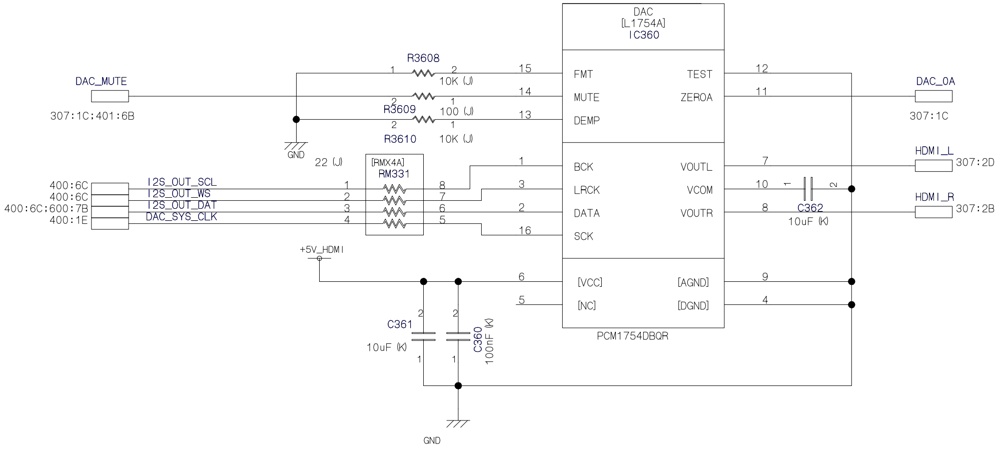
U04AS SIGNAL [302] HDMI (Link, I2C) (PE0251)


BDATA [0-7]
301:5B
1.GND
2.BDATA [0]
3.GND
4.BDATA [1]
5.GND
6.BDATA [2]
7.GND
8.BDATA [3]
9.GNG
10.BDATA [4]
11.GND
12.BDATA [5]
13.GND
14.BDATA [6]
15.GND
16.BDATA [7]
[C16A]
PJ300
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
B16B-CZHK-B-1 (LF) (SN) (V)
V22A00001300
NOT MOUNT
NOT MOUNT
MZA2010D330CT
4
3
2
1
5
6
7
8
FL307
[LMX4]
NOT MOUNT
MZA2010D330CT
4
3
2
1
5
6
7
8
FL308
[LMX4]
BDATA [0]
BDATA [1]
BDATA [2]
BDATA [3]
[RMX4A]
RM317
1
2
3
4
8
7
6
5
100K (J)
NOT MOUNT
GND
BDATA [4]
BDATA [5]
BDATA [6]
BDATA [7]
[RMX4A]
RM318
1
2
3
4
8
7
6
5
100K (J)
NOT MOUNT
GND
NOT MOUNT
W3703
1
2
0 (X)
GND
1
0 (X)
W3704
2
F_GND

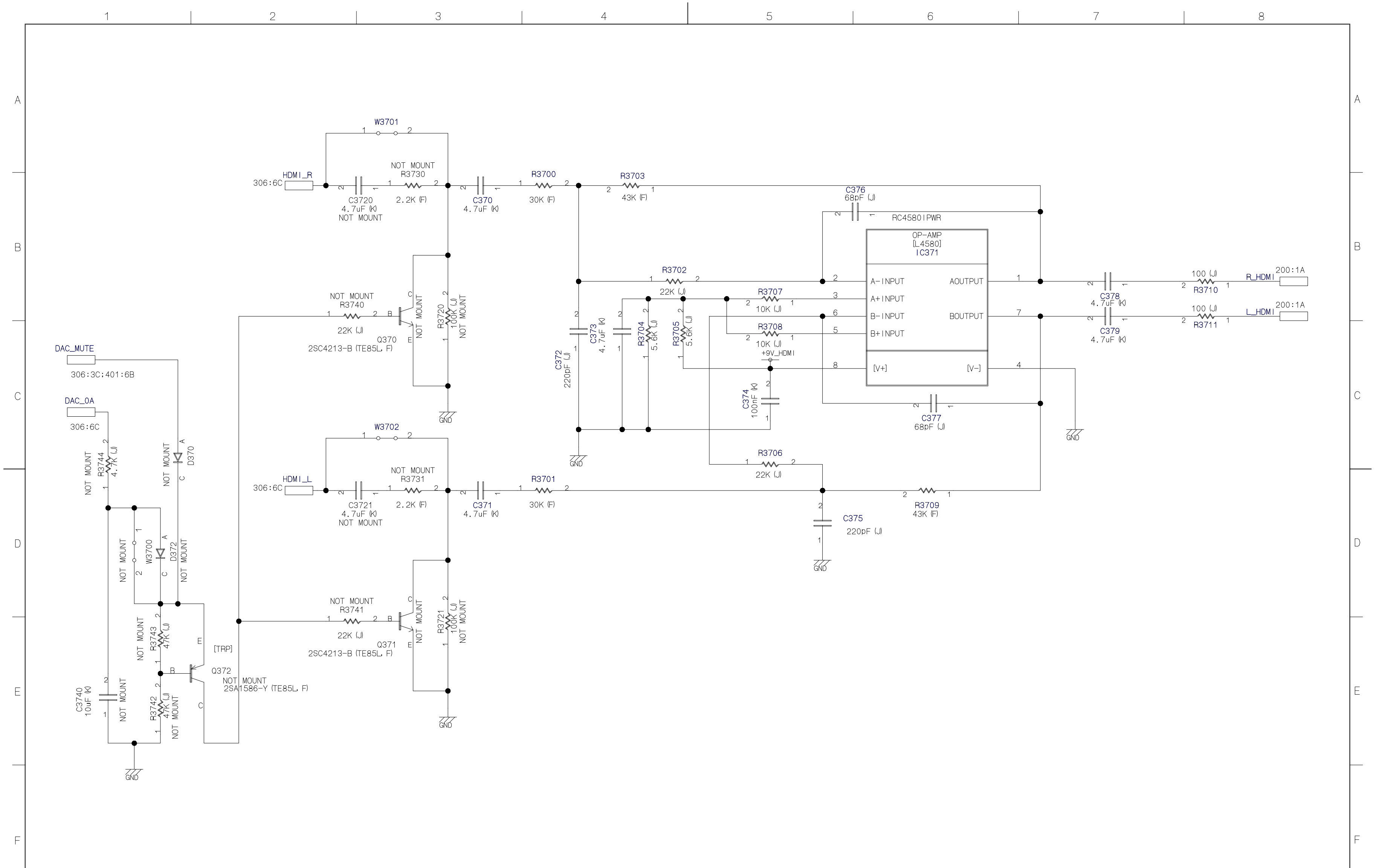
U04AS SIGNAL [303] DIP for ASIA DB (PE0251)


+3.3V_HDMI
C3410
C3411
C3412
C3413
C3414
C3415
C3416
C3417
C3418
C3419
C3420
C3421
100nF (K)
10nF (K)
L344
10uH (K)
+3.3V_HDMI_REG
C3446
1uF (K)
GND
V46A00009700
TMDS341
[V-I341]
2/2
IC300
VCC
GND
NC
7
13
17
27
33
43
50
56
61
69
75
79
4
10
16
24
30
36
37
47
53
59
65
66
72
78
1
20
41
60
5V2
+5V_HDMI
L300
BKP2125 HS330-T
C3002
16V
10uF (K)
+9V_HDMI
9V
L302
C3004
C388
100nF (K)
C389
V46A00005701
M2404HEPROM-M24C04-WMN6P03
EEPROM
[MSEE5128G]
IC387
SCL
SDA
E1
E2
WC
VSS
400:3D:404:1E:410:7B
SCL0
ON
SDA0
400:3E:404:1E:410:7C

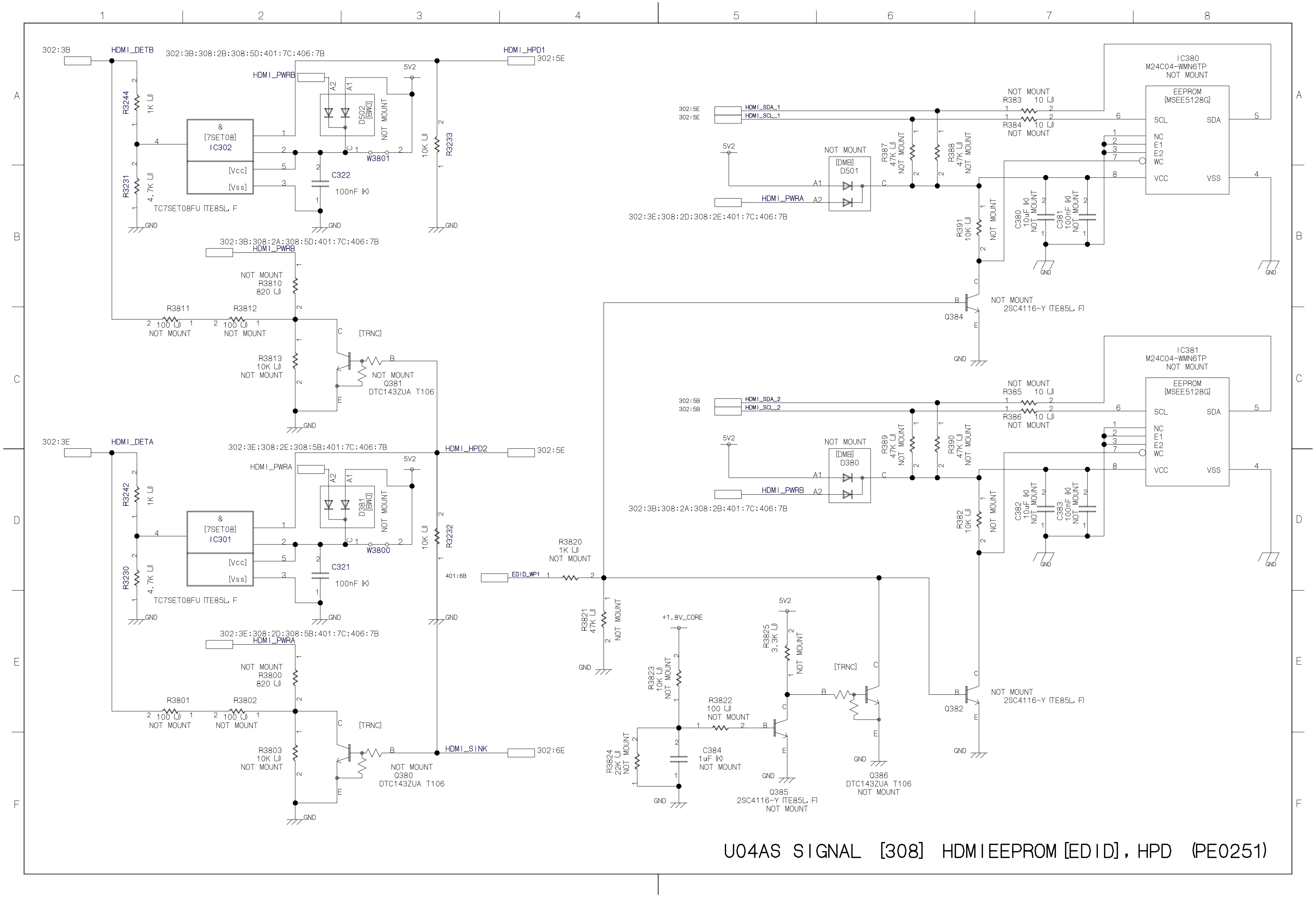
U04AS SIGNAL [304] HDMI POWER (PE0251)


DAC
[L1754A]
IC360
R3608
1
2
10K (J)
15
FMT
TEST
12
DAC_MUTE
307:1C;401:6B
2
1
R3609
100 (J)
14
MUTE
ZEROA
11
DAC_0A
307:1C
2
1
R3610
10K (J)
13
DEMP
GND
22 (J)
[RMX4A]
RM331
1
BCK
VOUTL
7
HDMI_L
307:2D
400:6C
I2S_OUT_SCL
1
8
3
LRCK
VCOM
10
1
2
C362
10uF (K)
400:6C
I2S_OUT_WS
2
7
400:6C;600:7B
I2S_OUT_DAT
3
6
2
DATA
VOUTR
8
HDMI_R
307:2B
400:1E
DAC_SYS_CLK
4
5
16
SCK
+5V_HDMI
6
[VCC]
[AGND]
9
5
[NC]
[DGND]
4
PCM1754DBQR
C361
10uF (K)
2
1
C360
100nF (K)
2
1
GND

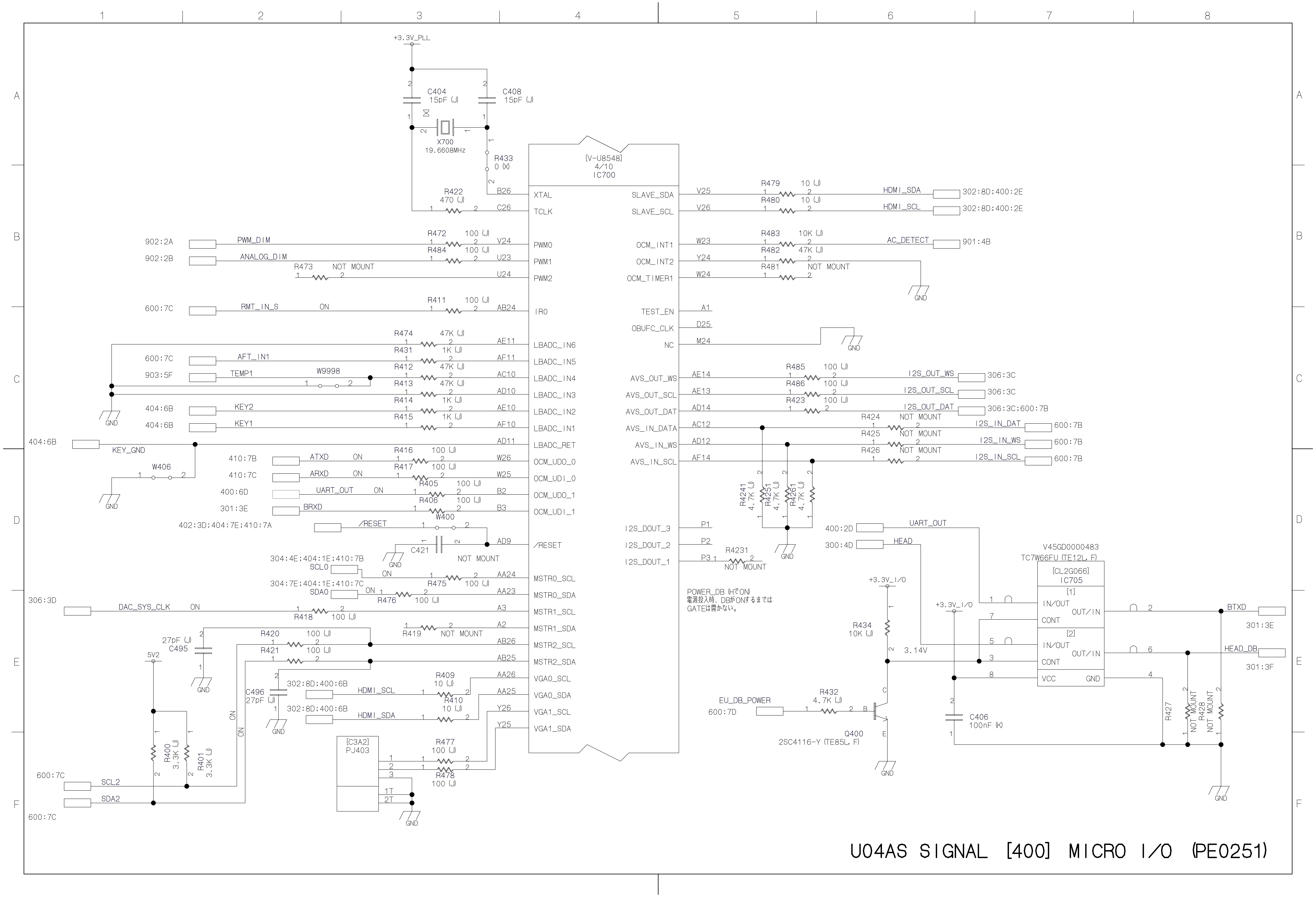
U04AS SIGNAL [306] HDMI_AUDIO_DAC (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
W3701
HDMI_R
306:6C
C3720
4.7uF (K)
NOT MOUNT
NOT MOUNT
R3730
2.2K (F)
C370
4.7uF (K)
R3700
30K (F)
R3703
43K (F)
C376
68pF (J)
RC4580IPWR
OP-AMP
[L4580]
IC371
A-INPUT
A+INPUT
B-INPUT
B+INPUT
[V+]
[V-]
AOUTPUT
BOUTPUT
R3702
22K (J)
R3707
10K (J)
R3708
10K (J)
+9V_HDMI
C372
220pF (J)
C373
4.7uF (K)
R3704
5.6K (J)
R3705
5.6K (J)
C374
100nF (K)
C377
68pF (J)
C378
4.7uF (K)
C379
4.7uF (K)
100 (J)
R3710
100 (J)
R3711
R_HDMI
L_HDMI
200:1A
200:1A
NOT MOUNT
R3740
22K (J)
Q370
2SC4213-B (TE85L, F)
R3720
100K (J)
NOT MOUNT
NOT MOUNT
DAC_MUTE
306:3C:401:6B
DAC_0A
306:6C
NOT MOUNT
R3744
4.7K (J)
NOT MOUNT
D370
W3702
HDMI_L
306:6C
C3721
4.7uF (K)
NOT MOUNT
NOT MOUNT
R3731
2.2K (F)
C371
4.7uF (K)
R3701
30K (F)
R3706
22K (J)
C375
220pF (J)
R3709
43K (F)
NOT MOUNT
W3700
D372
NOT MOUNT
NOT MOUNT
R3741
22K (J)
Q371
2SC4213-B (TE85L, F)
R3721
100K (J)
NOT MOUNT
NOT MOUNT
NOT MOUNT
R3743
47K (J)
[TRP]
Q372
NOT MOUNT
2SA1586-Y (TE85L, F)
C3740
10uF (K)
NOT MOUNT
R3742
47K (J)
NOT MOUNT
GND
GND
GND
GND
GND
GND

U04AS SIGNAL [307] HDMI_AUDIO_OUT (PE0251)

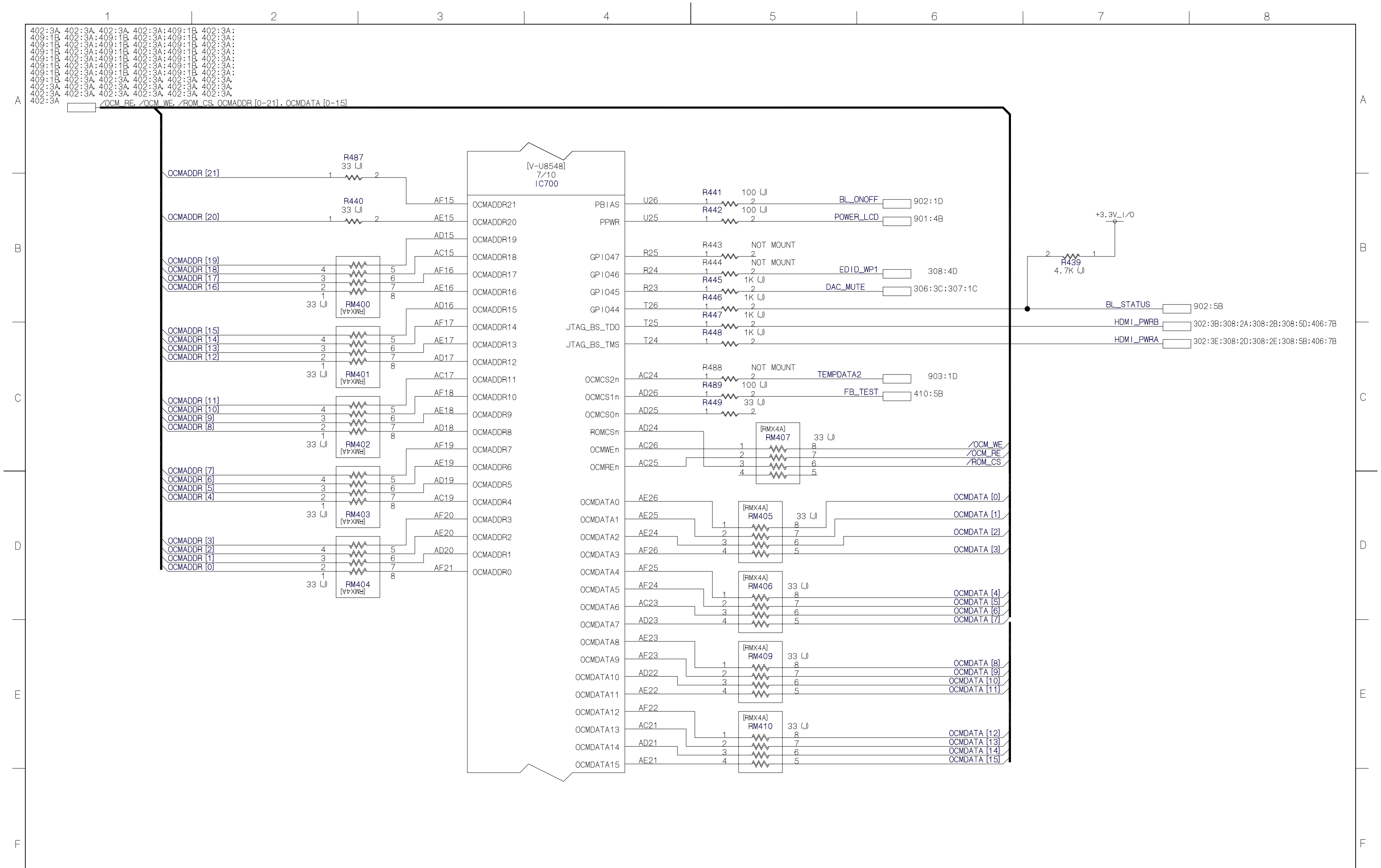

1
2
3
4
5
6
7
8
A
B
C
D
E
F
302:3B
HDMI_DETB
302:3B:308:2B:308:5D:401:7C:406:7B
HDMI_HPD1
302:5E
HDMI_PWRB
5V2
A2
A1
D502
[BWQ]
NOT MOUNT
R3244
1K (J)
&
[7SET08]
IC302
[Vcc]
[Vss]
C322
100nF (K)
W3801
10K (J)
R3233
R3231
4.7K (J)
TC7SET08FU (TE85L, F
GND
302:3B:308:2A:308:5D:401:7C:406:7B
NOT MOUNT
R3810
820 (J)
R3811
R3812
100 (J)
NOT MOUNT
[TRNC]
R3813
10K (J)
NOT MOUNT
Q381
DTC143ZUA T106
302:3E
HDMI_DETA
302:3E:308:2E:308:5B:401:7C:406:7B
HDMI_HPD2
302:5E
HDMI_PWRA
D381
[BWQ]
R3242
1K (J)
IC301
C321
100nF (K)
W3800
R3232
R3230
4.7K (J)
TC7SET08FU (TE85L, F
302:3E:308:2D:308:5B:401:7C:406:7B
R3800
820 (J)
R3801
R3802
R3803
10K (J)
Q380
DTC143ZUA T106
HDMI_SINK
302:6E
401:6B
EDID_WP1
R3820
1K (J)
NOT MOUNT
R3821
47K (J)
+1.8V_CORE
R3823
10K (J)
R3822
100 (J)
R3824
22K (J)
C384
1uF (K)
Q385
2SC4116-Y (TE85L, F)
NOT MOUNT
R3825
3.3K (J)
Q386
DTC143ZUA T106
NOT MOUNT
IC380
M24C04-WMN6TP
NOT MOUNT
EEPROM
[MSEE5128G]
SCL
SDA
NC
E1
E2
WC
VCC
VSS
R383
10 (J)
R384
10 (J)
302:5E
HDMI_SDA_1
HDMI_SCL_1
NOT MOUNT
[DMB]
D501
R387
47K (J)
R388
47K (J)
HDMI_PWRA
302:3E:308:2D:308:2E:401:7C:406:7B
C380
10uF (K)
C381
100nF (K)
R391
10K (J)
Q384
2SC4116-Y (TE85L, F)
IC381
M24C04-WMN6TP
NOT MOUNT
R385
10 (J)
R386
10 (J)
302:5B
HDMI_SDA_2
HDMI_SCL_2
D380
R389
47K (J)
R390
47K (J)
HDMI_PWRB
302:3B:308:2A:308:2B:401:7C:406:7B
C382
10uF (K)
C383
100nF (K)
R382
10K (J)
Q382
2SC4116-Y (TE85L, F)

U04AS SIGNAL [308] HDMIEEPROM[EDID], HPD (PE0251)

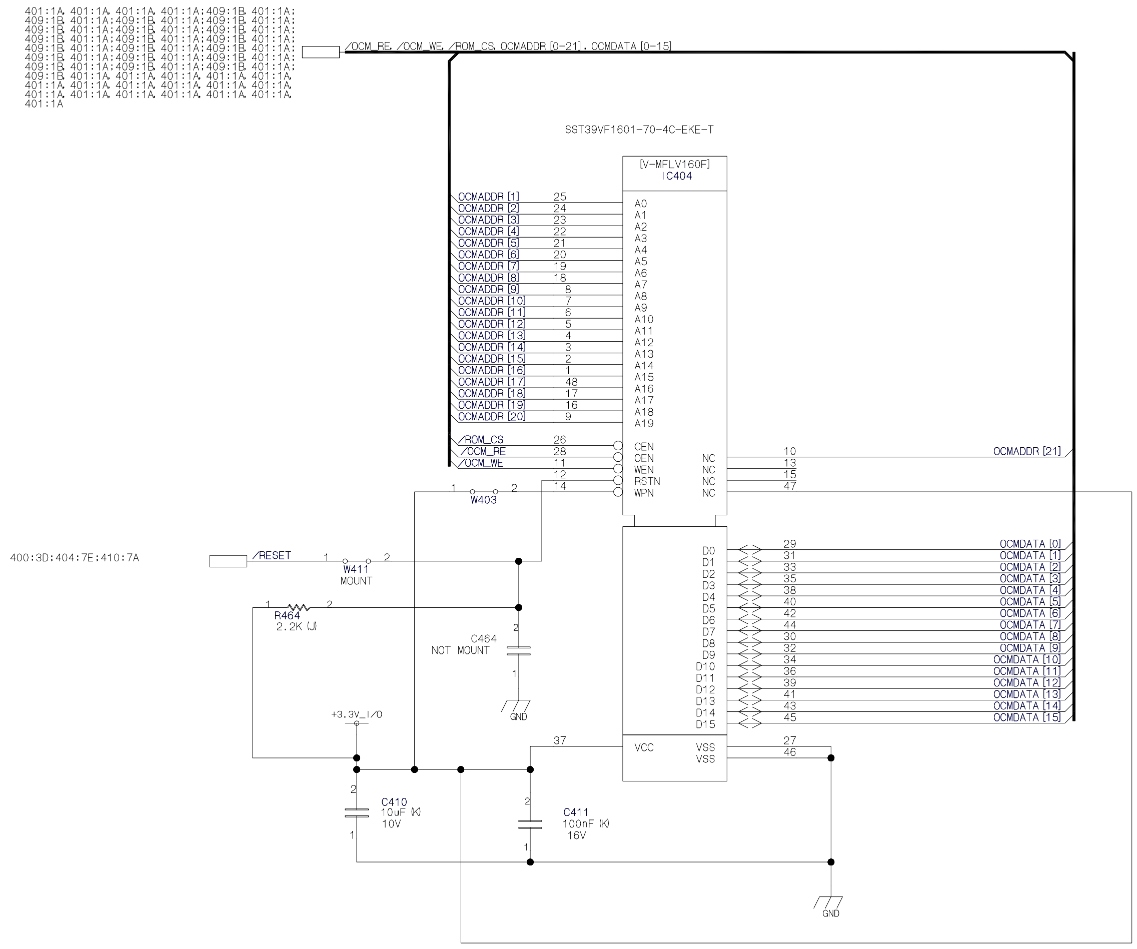

1
2
3
4
5
6
7
8
A
B
C
D
E
F
+3.3V_PLL
C404
15pF (J)
C408
15pF (J)
X700
19.6608MHz
R433
0 (X)
[V-U8548]
4/10
IC700
R422
470 (J)
B26
C26
XTAL
TCLK
SLAVE_SDA
SLAVE_SCL
V25
V26
R479
10 (J)
R480
10 (J)
HDMI_SDA
HDMI_SCL
302:8D:400:2E
302:8D:400:2E
902:2A
PWM_DIM
902:2B
ANALOG_DIM
R472
100 (J)
R484
100 (J)
R473
NOT MOUNT
V24
U23
U24
PWM0
PWM1
PWM2
OCM_INT1
OCM_INT2
OCM_TIMER1
W23
Y24
W24
R483
10K (J)
R482
47K (J)
R481
NOT MOUNT
AC_DETECT
901:4B
GND
600:7C
RMT_IN_S
ON
R411
100 (J)
AB24
IR0
TEST_EN
OBUFC_CLK
NC
A1
D25
M24
R474
47K (J)
R431
1K (J)
R412
47K (J)
R413
47K (J)
R414
1K (J)
R415
1K (J)
AE11
AF11
AC10
AD10
AE10
AF10
AD11
LBADC_IN6
LBADC_IN5
LBADC_IN4
LBADC_IN3
LBADC_IN2
LBADC_IN1
LBADC_RET
600:7C
AFT_IN1
903:5F
TEMP1
W9998
404:6B
KEY2
404:6B
KEY1
404:6B
KEY_GND
W406
AVS_OUT_WS
AVS_OUT_SCL
AVS_OUT_DAT
AVS_IN_DATA
AVS_IN_WS
AVS_IN_SCL
AE14
AE13
AD14
AC12
AD12
AF14
R485
100 (J)
R486
100 (J)
R423
100 (J)
R424
NOT MOUNT
R425
NOT MOUNT
R426
NOT MOUNT
I2S_OUT_WS
I2S_OUT_SCL
I2S_OUT_DAT
I2S_IN_DAT
I2S_IN_WS
I2S_IN_SCL
306:3C
306:3C
306:3C:600:7B
600:7B
600:7B
600:7B
R4241
4.7K (J)
R4251
4.7K (J)
R4261
4.7K (J)
410:7B
ATXD
ON
410:7C
ARXD
ON
400:6D
UART_OUT
ON
301:3E
BRXD
R416
100 (J)
R417
100 (J)
R405
100 (J)
R406
100 (J)
W26
W25
B2
B3
OCM_UDO_0
OCM_UDI_0
OCM_UDO_1
OCM_UDI_1
402:3D:404:7E:410:7A
/RESET
W400
C421
AD9
/RESET
I2S_DOUT_3
I2S_DOUT_2
I2S_DOUT_1
P1
P2
P3
R4231
NOT MOUNT
400:2D
UART_OUT
300:4D
HEAD
V45GD0000483
TC7W66FU (TE12L, F)
[CL2G066]
IC705
[1]
IN/OUT
OUT/IN
CONT
[2]
IN/OUT
OUT/IN
CONT
VCC
GND
BTXD
301:3E
HEAD_DB
301:3F
304:4E:404:1E:410:7B
SCL0
ON
R475
100 (J)
AA24
MSTR0_SCL
304:7E:404:1E:410:7C
SDA0
ON
R476
100 (J)
AA23
MSTR0_SDA
306:3D
DAC_SYS_CLK
ON
R418
100 (J)
A3
MSTR1_SCL
R419
NOT MOUNT
A2
MSTR1_SDA
27pF (J)
C495
R420
100 (J)
R421
100 (J)
AB26
AB25
MSTR2_SCL
MSTR2_SDA
5V2
+3.3V_I/O
R434
10K (J)
3.14V
+3.3V_I/O
C406
100nF (K)
R427
R428
NOT MOUNT
NOT MOUNT
C496
27pF (J)
302:8D:400:6B
HDMI_SCL
302:8D:400:6B
HDMI_SDA
R409
10 (J)
R410
10 (J)
AA26
AA25
Y26
Y25
VGA0_SCL
VGA0_SDA
VGA1_SCL
VGA1_SDA
EU_DB_POWER
600:7D
R432
4.7K (J)
Q400
2SC4116-Y (TE85L, F)
R400
3.3K (J)
R401
3.3K (J)
ON
ON
[C3A2]
PJ403
1T
2T
R477
100 (J)
R478
100 (J)
600:7C
SCL2
SDA2
600:7C

POWER_DB (HでON)
電源投入時、DBがONするまでは
GATEは開かない。

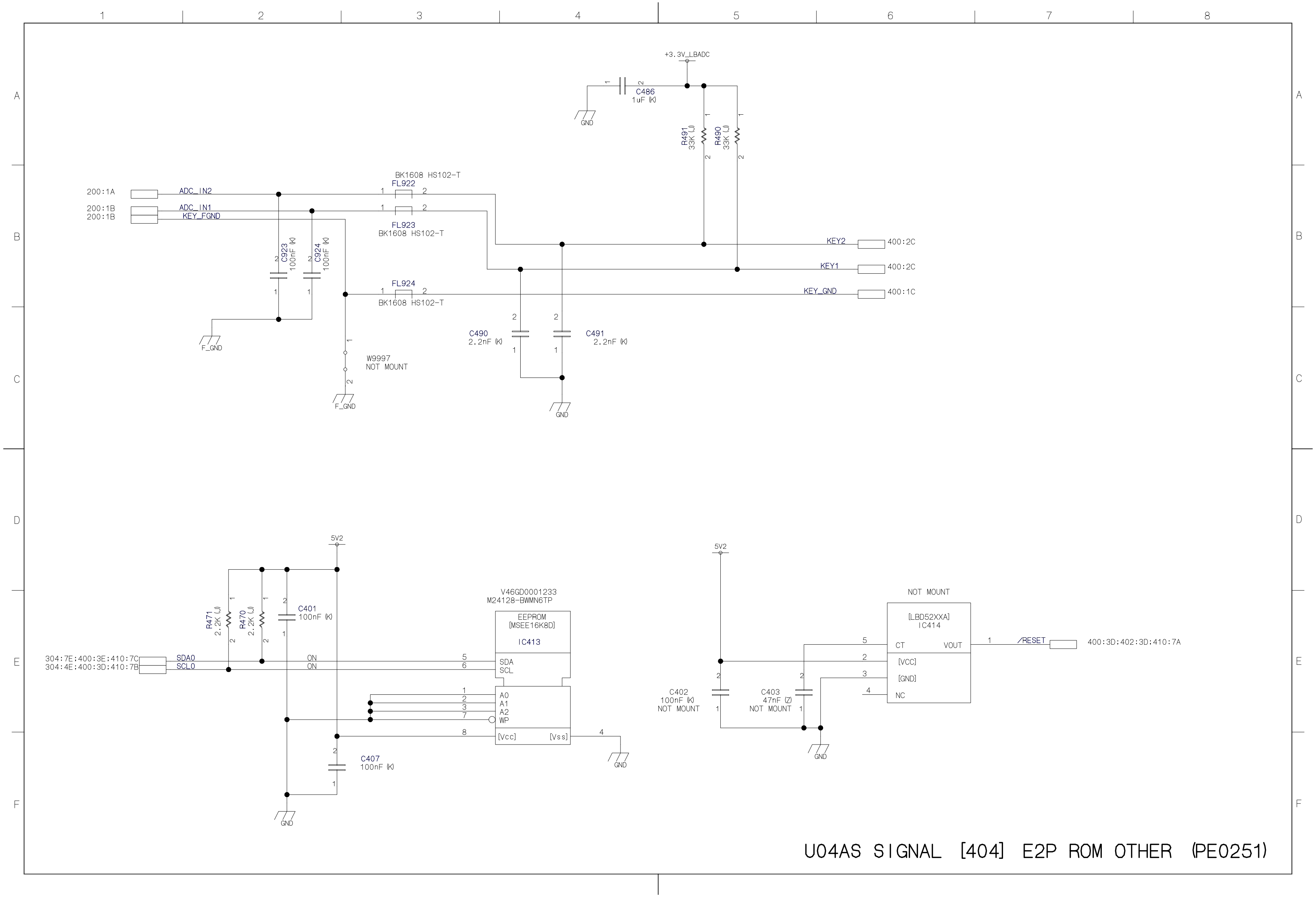
U04AS SIGNAL [400] MICRO I/O (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
402:3A, 402:3A, 402:3A, 402:3A;409:1B, 402:3A;
409:1B, 402:3A;409:1B, 402:3A;409:1B, 402:3A;
409:1B, 402:3A;409:1B, 402:3A;409:1B, 402:3A;
409:1B, 402:3A;409:1B, 402:3A;409:1B, 402:3A;
409:1B, 402:3A;409:1B, 402:3A;409:1B, 402:3A;
409:1B, 402:3A;409:1B, 402:3A;409:1B, 402:3A;
409:1B, 402:3A;409:1B, 402:3A;409:1B, 402:3A;
409:1B, 402:3A, 402:3A, 402:3A, 402:3A, 402:3A,
402:3A, 402:3A, 402:3A, 402:3A, 402:3A, 402:3A,
402:3A, 402:3A, 402:3A, 402:3A, 402:3A, 402:3A,
402:3A
/OCM_RE, /OCM_WE, /ROM_CS, OCMADDR [0-21], OCMDATA [0-15]
[V-U8548]
7/10
IC700
R487
33 (J)
OCMADDR [21]
R440
33 (J)
OCMADDR [20]
OCMADDR [19]
OCMADDR [18]
OCMADDR [17]
OCMADDR [16]
RM400
[RMX4A]
33 (J)
OCMADDR [15]
OCMADDR [14]
OCMADDR [13]
OCMADDR [12]
RM401
OCMADDR [11]
OCMADDR [10]
OCMADDR [9]
OCMADDR [8]
RM402
OCMADDR [7]
OCMADDR [6]
OCMADDR [5]
OCMADDR [4]
RM403
OCMADDR [3]
OCMADDR [2]
OCMADDR [1]
OCMADDR [0]
RM404
AF15 OCMADDR21
AE15 OCMADDR20
AD15 OCMADDR19
AC15 OCMADDR18
AF16 OCMADDR17
AE16 OCMADDR16
AD16 OCMADDR15
AF17 OCMADDR14
AE17 OCMADDR13
AD17 OCMADDR12
AC17 OCMADDR11
AF18 OCMADDR10
AE18 OCMADDR9
AD18 OCMADDR8
AF19 OCMADDR7
AE19 OCMADDR6
AD19 OCMADDR5
AC19 OCMADDR4
AF20 OCMADDR3
AE20 OCMADDR2
AD20 OCMADDR1
AF21 OCMADDR0
PBIAS U26
PPWR U25
GPIO47 R25
GPIO46 R24
GPIO45 R23
GPIO44 T26
JTAG_BS_TDO T25
JTAG_BS_TMS T24
OCMCS2n AC24
OCMCS1n AD26
OCMCS0n AD25
ROMCSn AD24
OCMWEn AC26
OCMREn AC25
OCMDATA0 AE26
OCMDATA1 AE25
OCMDATA2 AE24
OCMDATA3 AF26
OCMDATA4 AF25
OCMDATA5 AF24
OCMDATA6 AC23
OCMDATA7 AD23
OCMDATA8 AE23
OCMDATA9 AF23
OCMDATA10 AD22
OCMDATA11 AE22
OCMDATA12 AF22
OCMDATA13 AC21
OCMDATA14 AD21
OCMDATA15 AE21
R441 100 (J)
BL_ONOFF
902:1D
R442 100 (J)
POWER_LCD
901:4B
R443 NOT MOUNT
R444 NOT MOUNT
EDID_WP1
308:4D
R445 1K (J)
DAC_MUTE
306:3C;307:1C
R446 1K (J)
BL_STATUS
902:5B
R447 1K (J)
HDMI_PWRB
302:3B;308:2A;308:2B;308:5D;406:7B
R448 1K (J)
HDMI_PWRA
302:3E;308:2D;308:2E;308:5B;406:7B
+3.3V_I/O
R439
4.7K (J)
R488 NOT MOUNT
TEMPDATA2
903:1D
R489 100 (J)
FB_TEST
410:5B
R449 33 (J)
[RMX4A]
RM407
33 (J)
/OCM_WE
/OCM_RE
/ROM_CS
[RMX4A]
RM405
33 (J)
OCMDATA [0]
OCMDATA [1]
OCMDATA [2]
OCMDATA [3]
[RMX4A]
RM406
33 (J)
OCMDATA [4]
OCMDATA [5]
OCMDATA [6]
OCMDATA [7]
[RMX4A]
RM409
33 (J)
OCMDATA [8]
OCMDATA [9]
OCMDATA [10]
OCMDATA [11]
[RMX4A]
RM410
33 (J)
OCMDATA [12]
OCMDATA [13]
OCMDATA [14]
OCMDATA [15]

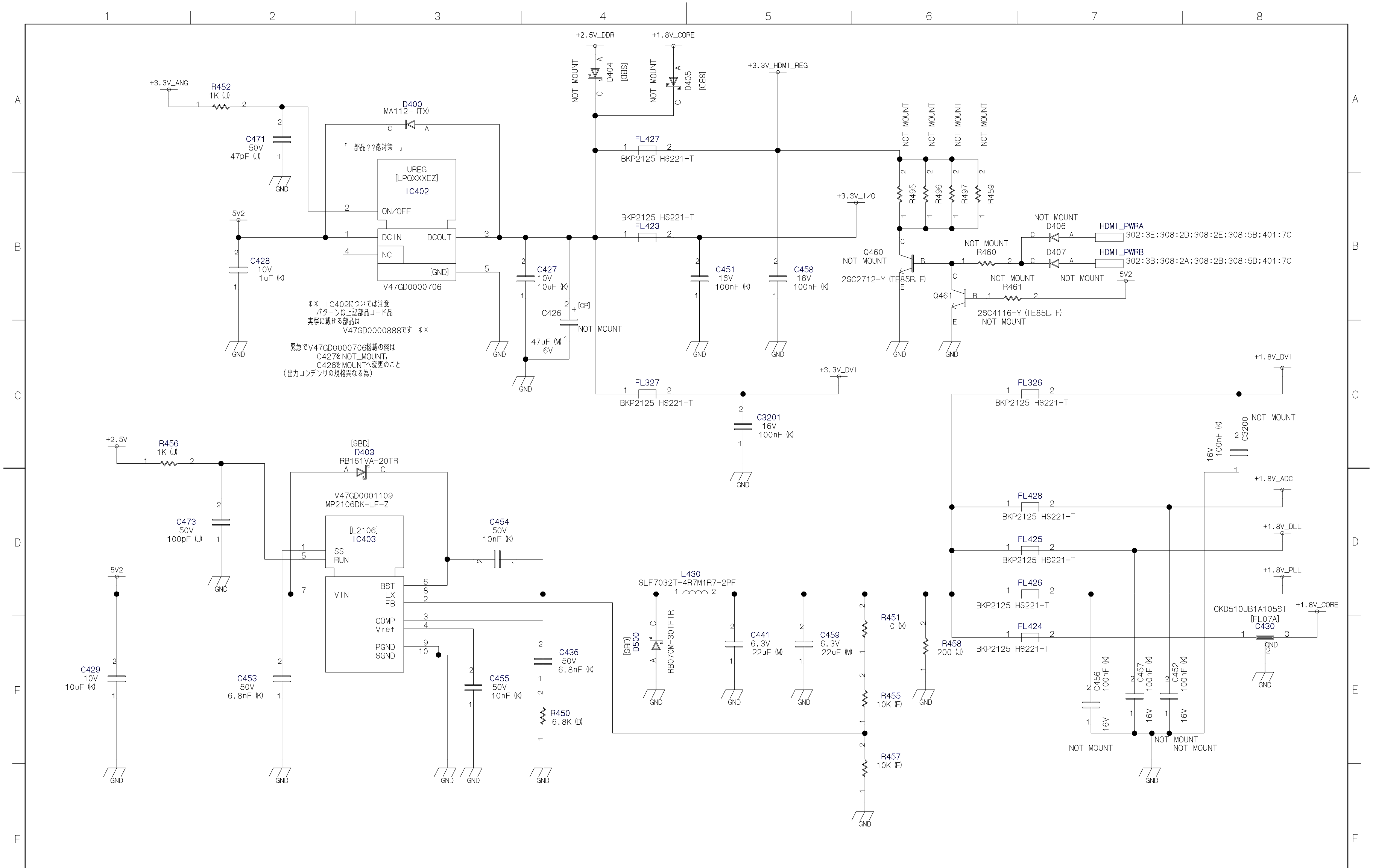
U04AS SIGNAL [401] OCM MEMORY I/F (PE0251)


401:1A 401:1A 401:1A 401:1A:409:1B 401:1A:
409:1B 401:1A:409:1B 401:1A:409:1B 401:1A:
409:1B 401:1A:409:1B 401:1A:409:1B 401:1A:
409:1B 401:1A:409:1B 401:1A:409:1B 401:1A:
409:1B 401:1A:409:1B 401:1A:409:1B 401:1A:
409:1B 401:1A:409:1B 401:1A:409:1B 401:1A:
409:1B 401:1A:409:1B 401:1A:409:1B 401:1A:
409:1B 401:1A 401:1A 401:1A 401:1A 401:1A
401:1A 401:1A 401:1A 401:1A 401:1A 401:1A
401:1A 401:1A 401:1A 401:1A 401:1A 401:1A
401:1A
/OCM_RE, /OCM_WE, /ROM_CS, OCMADDR [0-21], OCMDATA [0-15]
SST39VF1601-70-4C-EKE-T
[V-MFLV160F]
IC404
OCMADDR [1] 25 A0
OCMADDR [2] 24 A1
OCMADDR [3] 23 A2
OCMADDR [4] 22 A3
OCMADDR [5] 21 A4
OCMADDR [6] 20 A5
OCMADDR [7] 19 A6
OCMADDR [8] 18 A7
OCMADDR [9] 8 A8
OCMADDR [10] 7 A9
OCMADDR [11] 6 A10
OCMADDR [12] 5 A11
OCMADDR [13] 4 A12
OCMADDR [14] 3 A13
OCMADDR [15] 2 A14
OCMADDR [16] 1 A15
OCMADDR [17] 48 A16
OCMADDR [18] 17 A17
OCMADDR [19] 16 A18
OCMADDR [20] 9 A19
/ROM_CS 26 CEN
/OCM_RE 28 OEN
/OCM_WE 11 WEN
12 RSTN
14 WPN
NC 10 OCMADDR [21]
NC 13
NC 15
NC 47
1 2
W403
400:3D:404:7E:410:7A
/RESET
1 2
W411
MOUNT
1 2
R464
2.2K (J)
C464
NOT MOUNT
2
1
GND
D0 29 OCMDATA [0]
D1 31 OCMDATA [1]
D2 33 OCMDATA [2]
D3 35 OCMDATA [3]
D4 38 OCMDATA [4]
D5 40 OCMDATA [5]
D6 42 OCMDATA [6]
D7 44 OCMDATA [7]
D8 30 OCMDATA [8]
D9 32 OCMDATA [9]
D10 34 OCMDATA [10]
D11 36 OCMDATA [11]
D12 39 OCMDATA [12]
D13 41 OCMDATA [13]
D14 43 OCMDATA [14]
D15 45 OCMDATA [15]
+3.3V_I/O
37 VCC
VSS 27
VSS 46
2
C410
10uF (K)
10V
1
2
C411
100nF (K)
16V
1
GND

U04AS SIGNAL [402] FLASH MEMORY (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
+3.3V_LBADC
C486
1uF (K)
GND
R491
33K (J)
R490
33K (J)
BK1608 HS102-T
FL922
200:1A
ADC_IN2
200:1B
ADC_IN1
200:1B
KEY_FGND
FL923
BK1608 HS102-T
C923
100nF (K)
C924
100nF (K)
KEY2
400:2C
KEY1
400:2C
FL924
BK1608 HS102-T
KEY_GND
400:1C
F_GND
C490
2.2nF (K)
C491
2.2nF (K)
W9997
NOT MOUNT
F_GND
GND
5V2
R471
2.2K (J)
R470
2.2K (J)
C401
100nF (K)
V46GD0001233
M24128-BWMN6TP
EEPROM
[MSEE16K8D]
IC413
304:7E:400:3E:410:7C
SDA0
304:4E:400:3D:410:7B
SCL0
ON
ON
SDA
SCL
A0
A1
A2
WP
[Vcc]
[Vss]
GND
C407
100nF (K)
GND
5V2
NOT MOUNT
[LBD52XXA]
IC414
CT
VOUT
/RESET
400:3D:402:3D:410:7A
[VCC]
[GND]
NC
C402
100nF (K)
NOT MOUNT
C403
47nF (Z)
NOT MOUNT
GND

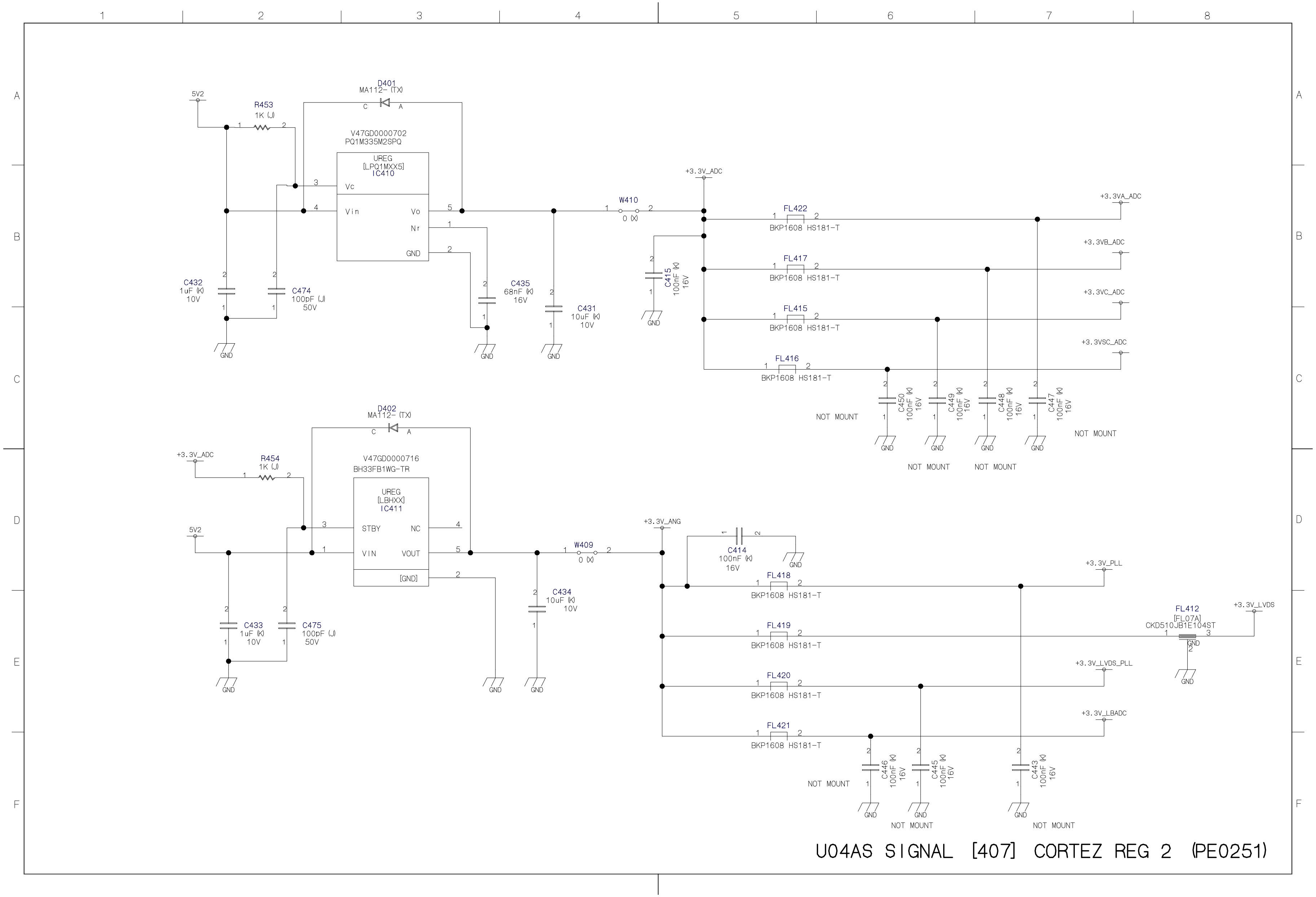
U04AS SIGNAL [404] E2P ROM OTHER (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
+3.3V_ANG
R452
1K (J)
C471
50V
47pF (J)
GND
D400
MA112- (TX)
C
A
「　部品??路対策　」
UREG
[LPQXXXEZ]
IC402
ON/OFF
DCIN
DCOUT
NC
[GND]
V47GD0000706
5V2
C428
10V
1uF (K)
C427
10V
10uF (K)
C426
[CP]
47uF (M)
6V
NOT MOUNT
+2.5V_DDR
+1.8V_CORE
D404
D405
[DBS]
NOT MOUNT
+3.3V_HDMI_REG
FL427
BKP2125 HS221-T
FL423
BKP2125 HS221-T
+3.3V_I/O
C451
16V
100nF (K)
C458
16V
100nF (K)
FL327
BKP2125 HS221-T
+3.3V_DVI
C3201
16V
100nF (K)
R495
R496
R497
R459
NOT MOUNT
Q460
NOT MOUNT
2SC2712-Y (TE85R, F)
R460
NOT MOUNT
D406
NOT MOUNT
D407
NOT MOUNT
HDMI_PWRA
302:3E;308:2D;308:2E;308:5B;401:7C
HDMI_PWRB
302:3B;308:2A;308:2B;308:5D;401:7C
Q461
R461
NOT MOUNT
2SC4116-Y (TE85L, F)
NOT MOUNT
5V2
+1.8V_DVI
FL326
BKP2125 HS221-T
C3200
16V
100nF (K)
NOT MOUNT
+1.8V_ADC
FL428
BKP2125 HS221-T
+1.8V_DLL
FL425
BKP2125 HS221-T
+1.8V_PLL
FL426
BKP2125 HS221-T
+1.8V_CORE
CKD510JB1A105ST
[FL07A]
C430
FL424
BKP2125 HS221-T
C456
100nF (K)
16V
C457
100nF (K)
16V
C452
100nF (K)
16V
NOT MOUNT
NOT MOUNT
NOT MOUNT
R458
200 (J)
+2.5V
R456
1K (J)
C473
50V
100pF (J)
[SBD]
D403
RB161VA-20TR
A
C
V47GD0001109
MP2106DK-LF-Z
[L2106]
IC403
SS
RUN
VIN
BST
LX
FB
COMP
Vref
PGND
SGND
C454
50V
10nF (K)
L430
SLF7032T-4R7M1R7-2PF
[SBD]
D500
RB070M-30TFTR
C441
6.3V
22uF (M)
C459
6.3V
22uF (M)
R451
0 (X)
R455
10K (F)
R457
10K (F)
5V2
C429
10V
10uF (K)
C453
50V
6.8nF (K)
C455
50V
10nF (K)
C436
50V
6.8nF (K)
R450
6.8K (D)
GND

＊＊　IC402については注意
パターンは上記部品コード品
実際に載せる部品は
V47GD0000888です　＊＊

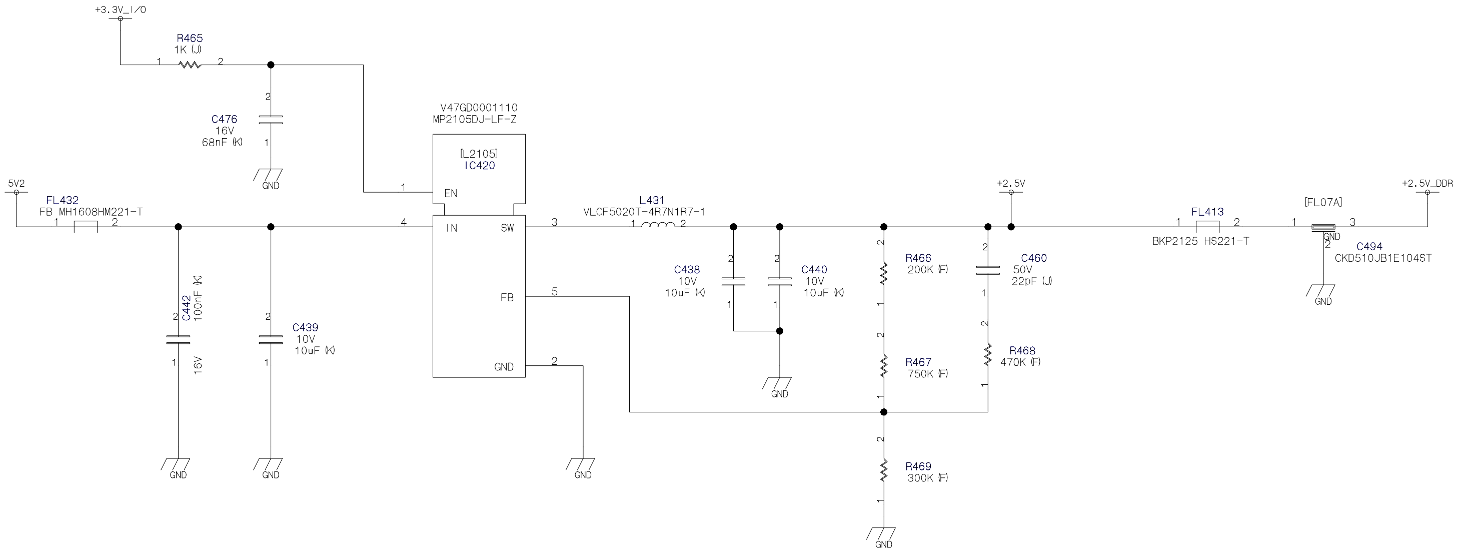
緊急でV47GD0000706搭載の際は
C427をNOT_MOUNT,
C426をMOUNTへ変更のこと
（出力コンデンサの規格異なる為）

U04AS SIGNAL [406] CORTEZ REG 1 (PE0251)

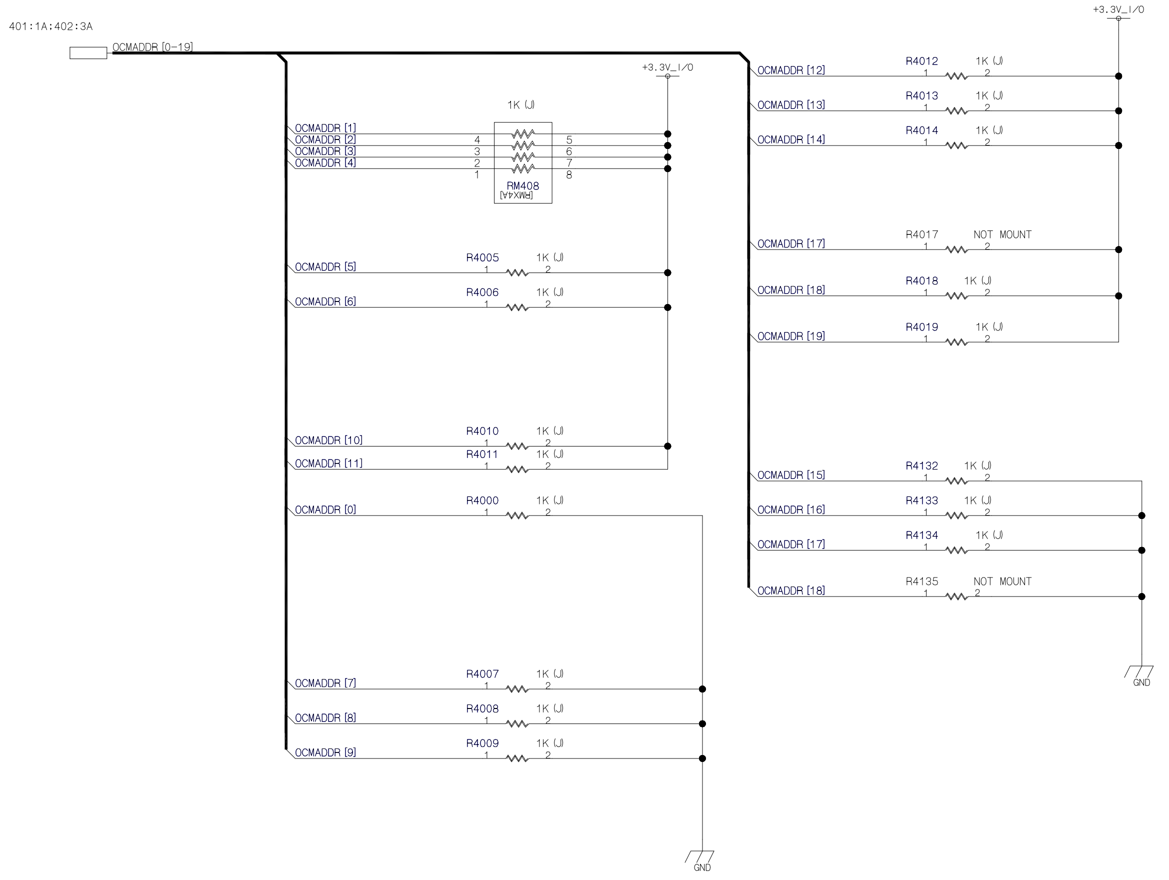


D401
MA112-(TX)
C
A
5V2
R453
1K (J)
V47GD0000702
PQ1M335M2SPQ
UREG
[LPQ1MXX5]
IC410
Vc
Vin
Vo
Nr
GND
C432
1uF (K)
10V
C474
100pF (J)
50V
C435
68nF (K)
16V
C431
10uF (K)
10V
W410
0 (X)
+3.3V_ADC
C415
100nF (K)
16V
FL422
BKP1608 HS181-T
FL417
BKP1608 HS181-T
FL415
BKP1608 HS181-T
FL416
BKP1608 HS181-T
+3.3VA_ADC
+3.3VB_ADC
+3.3VC_ADC
+3.3VSC_ADC
C450
100nF (K)
16V
C449
100nF (K)
16V
C448
100nF (K)
16V
C447
100nF (K)
16V
NOT MOUNT
D402
MA112-(TX)
+3.3V_ADC
R454
1K (J)
V47GD0000716
BH33FB1WG-TR
UREG
[LBHXX]
IC411
STBY
NC
VIN
VOUT
[GND]
5V2
C433
1uF (K)
10V
C475
100pF (J)
50V
C434
10uF (K)
10V
W409
0 (X)
+3.3V_ANG
C414
100nF (K)
16V
FL418
BKP1608 HS181-T
FL419
BKP1608 HS181-T
FL420
BKP1608 HS181-T
FL421
BKP1608 HS181-T
+3.3V_PLL
FL412
[FL07A]
CKD510JB1E104ST
+3.3V_LVDS
+3.3V_LVDS_PLL
+3.3V_LBADC
C446
100nF (K)
16V
C445
100nF (K)
16V
C443
100nF (K)
16V
NOT MOUNT
GND
1
2
3
4
5
6
7
8
A
B
C
D
E
F

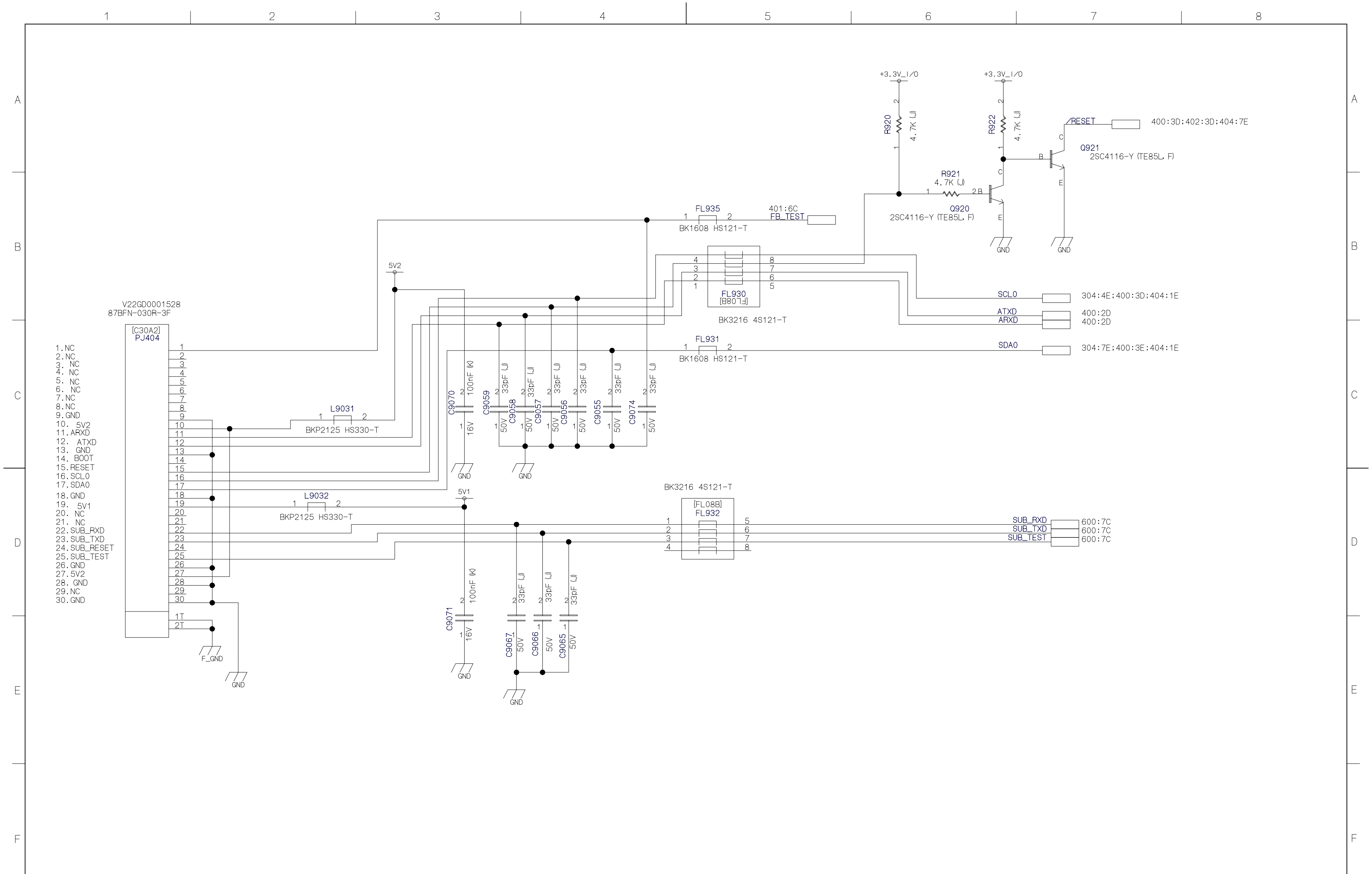
U04AS SIGNAL [407] CORTEZ REG 2 (PE0251)


+3.3V_I/O
R465
1K (J)
C476
16V
68nF (K)
GND
V47GD0001110
MP2105DJ-LF-Z
[L2105]
IC420
EN
IN
SW
FB
GND
5V2
FL432
FB MH1608HM221-T
C442
100nF (K)
16V
GND
C439
10V
10uF (K)
GND
GND
L431
VLCF5020T-4R7N1R7-1
C438
10V
10uF (K)
C440
10V
10uF (K)
GND
R466
200K (F)
R467
750K (F)
R469
300K (F)
GND
+2.5V
C460
50V
22pF (J)
R468
470K (F)
FL413
BKP2125 HS221-T
[FL07A]
GND
C494
CKD510JB1E104ST
GND
+2.5V_DDR

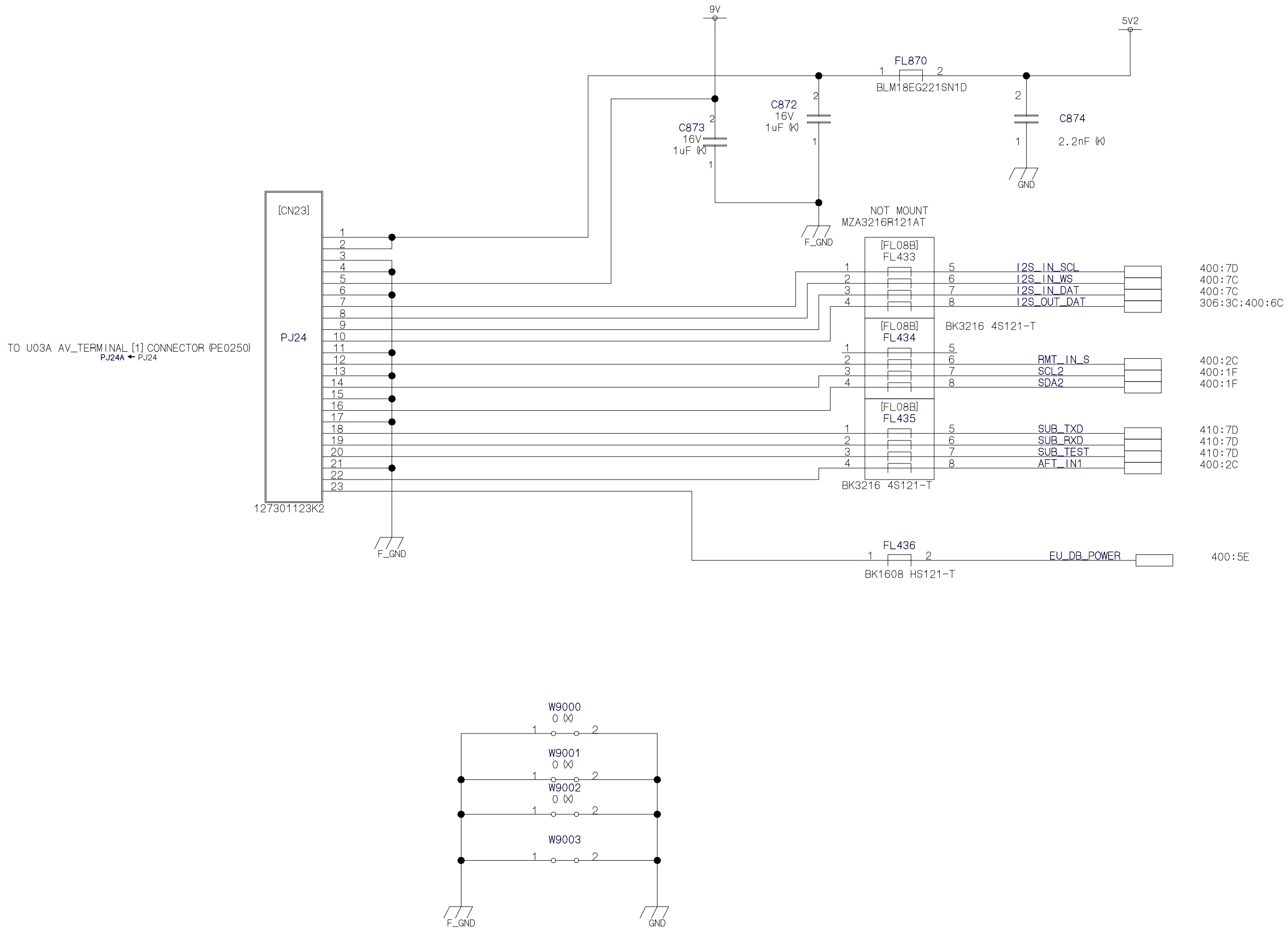
U04AS SIGNAL [408] CORTEZ REG 3 (PE0251)


401:1A:402:3A
OCMADDR [0-19]
+3.3V_I/O
1K (J)
OCMADDR [1]
OCMADDR [2]
OCMADDR [3]
OCMADDR [4]
RM408
[RMX4A]
OCMADDR [5]
R4005 1K (J)
OCMADDR [6]
R4006 1K (J)
OCMADDR [10]
R4010 1K (J)
OCMADDR [11]
R4011 1K (J)
OCMADDR [0]
R4000 1K (J)
OCMADDR [7]
R4007 1K (J)
OCMADDR [8]
R4008 1K (J)
OCMADDR [9]
R4009 1K (J)
GND
+3.3V_I/O
OCMADDR [12]
R4012 1K (J)
OCMADDR [13]
R4013 1K (J)
OCMADDR [14]
R4014 1K (J)
OCMADDR [17]
R4017 NOT MOUNT
OCMADDR [18]
R4018 1K (J)
OCMADDR [19]
R4019 1K (J)
OCMADDR [15]
R4132 1K (J)
OCMADDR [16]
R4133 1K (J)
OCMADDR [17]
R4134 1K (J)
OCMADDR [18]
R4135 NOT MOUNT
GND

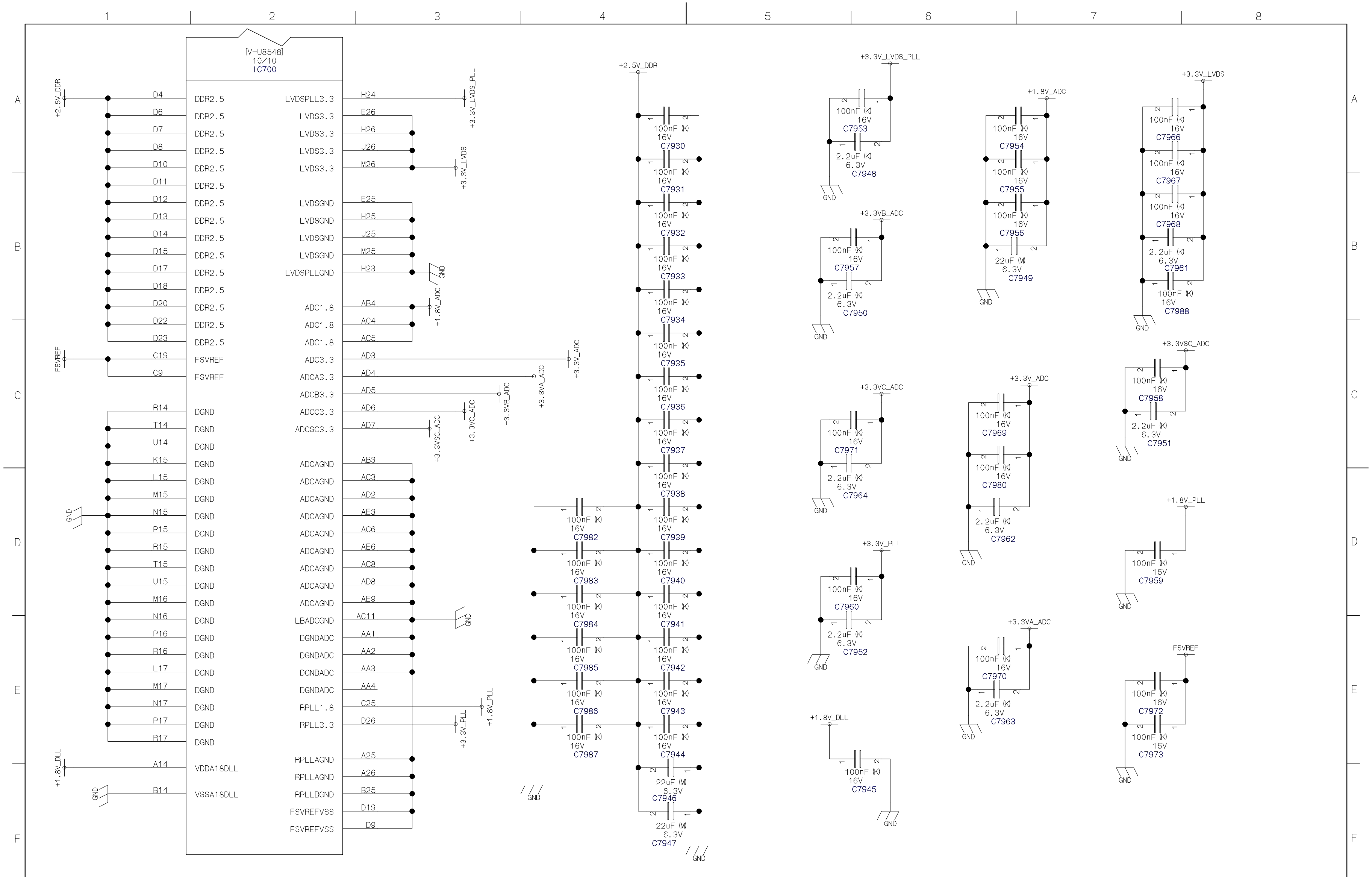
U04AS SIGNAL [409] BOOT CONFIG (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
+3.3V_I/O
R920
4.7K (J)
R922
4.7K (J)
R921
4.7K (J)
Q920
2SC4116-Y (TE85L, F)
Q921
2SC4116-Y (TE85L, F)
/RESET
400:3D:402:3D:404:7E
GND
FL935
BK1608 HS121-T
401:6C
FB_TEST
FL930
[FL08B]
BK3216 4S121-T
SCL0
304:4E:400:3D:404:1E
ATXD
ARXD
400:2D
400:2D
FL931
BK1608 HS121-T
SDA0
304:7E:400:3E:404:1E
5V2
5V1
V22GD0001528
87BFN-030R-3F
[C30A2]
PJ404
1.NC
2.NC
3. NC
4. NC
5. NC
6. NC
7.NC
8.NC
9.GND
10. 5V2
11.ARXD
12. ATXD
13. GND
14. BOOT
15.RESET
16.SCL0
17.SDA0
18.GND
19. 5V1
20. NC
21. NC
22.SUB_RXD
23.SUB_TXD
24.SUB_RESET
25.SUB_TEST
26.GND
27.5V2
28. GND
29.NC
30.GND
1T
2T
F_GND
L9031
BKP2125 HS330-T
L9032
BKP2125 HS330-T
C9070
100nF (K)
16V
C9059
C9058
C9057
C9056
C9055
C9074
33pF (J)
50V
BK3216 4S121-T
[FL08B]
FL932
SUB_RXD
SUB_TXD
SUB_TEST
600:7C
600:7C
600:7C
C9071
100nF (K)
16V
C9067
C9066
C9065
33pF (J)
50V

U04AS SIGNAL [410] SERVICE CONNECTOR (PE0251)

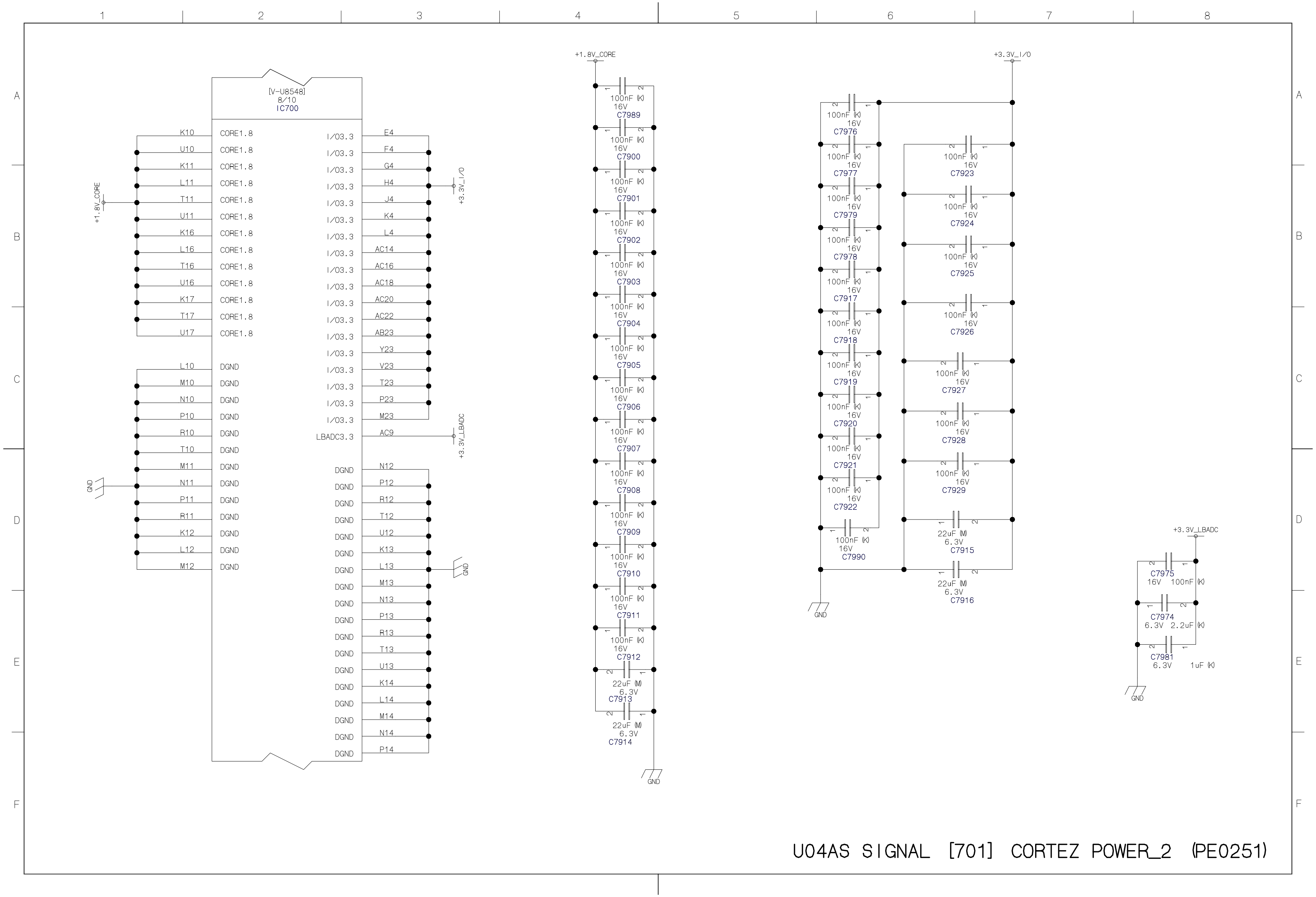

9V
5V2
FL870
BLM18EG221SN1D
C873
16V
1uF (K)
C872
16V
1uF (K)
C874
2.2nF (K)
GND
F_GND
NOT MOUNT
MZA3216R121AT
[CN23]
PJ24
127301123K2
TO U03A AV_TERMINAL [1] CONNECTOR (PE0250)
PJ24A ← PJ24
[FL08B]
FL433
I2S_IN_SCL
I2S_IN_WS
I2S_IN_DAT
I2S_OUT_DAT
400:7D
400:7C
400:7C
306:3C;400:6C
[FL08B]
FL434
BK3216 4S121-T
RMT_IN_S
SCL2
SDA2
400:2C
400:1F
400:1F
[FL08B]
FL435
SUB_TXD
SUB_RXD
SUB_TEST
AFT_IN1
410:7D
410:7D
410:7D
400:2C
BK3216 4S121-T
FL436
BK1608 HS121-T
EU_DB_POWER
400:5E
W9000
0 (X)
W9001
0 (X)
W9002
0 (X)
W9003
F_GND
GND

U04AS SIGNAL [600] AUDIO (PE0251)
]

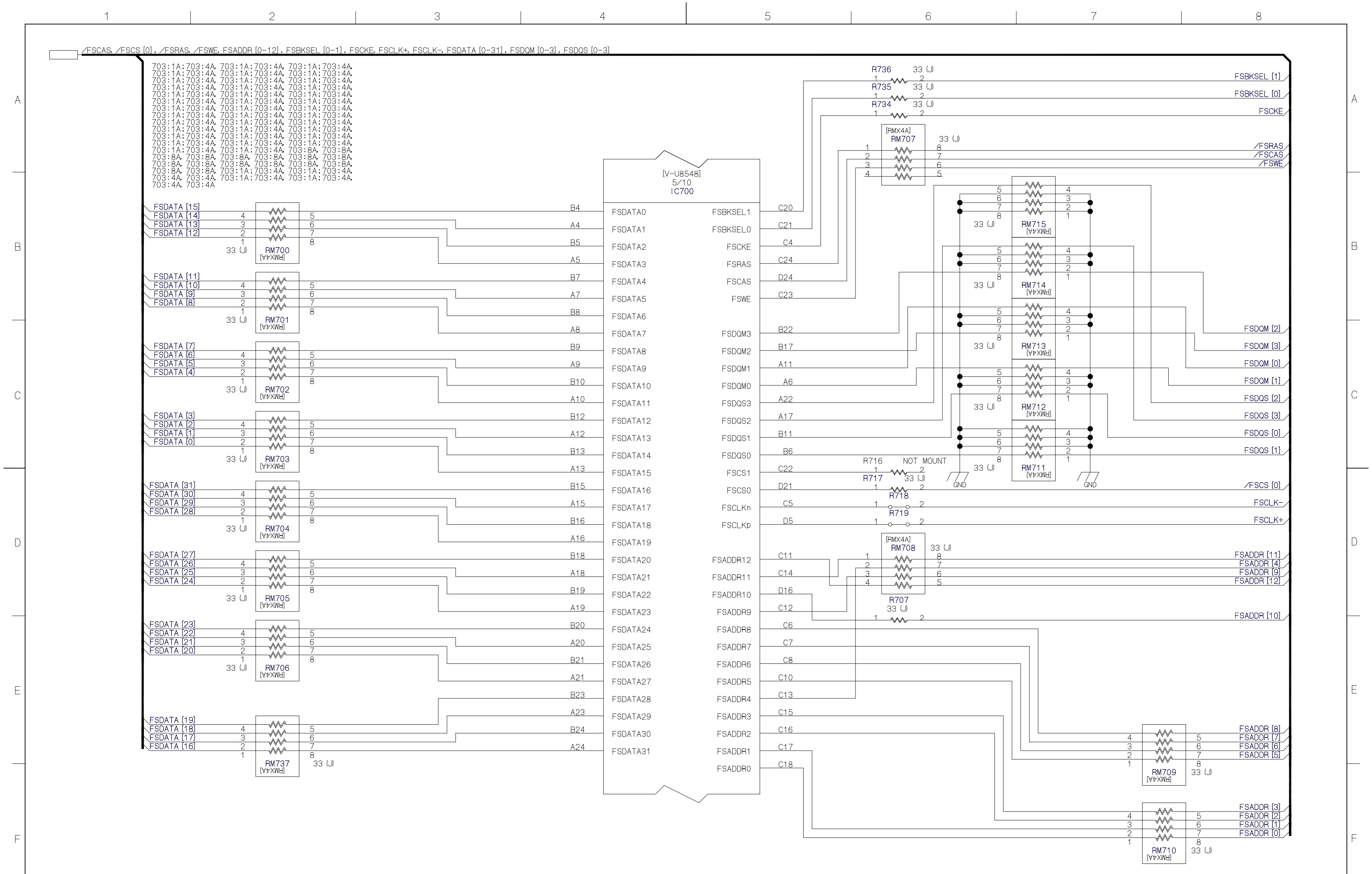


1
2
3
4
5
6
7
8
A
B
C
D
E
F
[V-U8548]
10/10
IC700
+2.5V_DDR
D4 DDR2.5
D6 DDR2.5
D7 DDR2.5
D8 DDR2.5
D10 DDR2.5
D11 DDR2.5
D12 DDR2.5
D13 DDR2.5
D14 DDR2.5
D15 DDR2.5
D17 DDR2.5
D18 DDR2.5
D20 DDR2.5
D22 DDR2.5
D23 DDR2.5
FSVREF
C19 FSVREF
C9 FSVREF
R14 DGND
T14 DGND
U14 DGND
K15 DGND
L15 DGND
M15 DGND
N15 DGND
P15 DGND
R15 DGND
T15 DGND
U15 DGND
M16 DGND
N16 DGND
P16 DGND
R16 DGND
L17 DGND
M17 DGND
N17 DGND
P17 DGND
R17 DGND
GND
+1.8V_DLL
A14 VDDA18DLL
B14 VSSA18DLL
GND
LVDSPLL3.3 H24
LVDS3.3 E26
LVDS3.3 H26
LVDS3.3 J26
LVDS3.3 M26
+3.3V_LVDS_PLL
+3.3V_LVDS
LVDSGND E25
LVDSGND H25
LVDSGND J25
LVDSGND M25
LVDSPLLGND H23
GND
ADC1.8 AB4
ADC1.8 AC4
ADC1.8 AC5
+1.8V_ADC
ADC3.3 AD3
ADCA3.3 AD4
ADCB3.3 AD5
ADCC3.3 AD6
ADCSC3.3 AD7
+3.3V_ADC
+3.3VA_ADC
+3.3VB_ADC
+3.3VC_ADC
+3.3VSC_ADC
ADCAGND AB3
ADCAGND AC3
ADCAGND AD2
ADCAGND AE3
ADCAGND AC6
ADCAGND AE6
ADCAGND AC8
ADCAGND AD8
ADCAGND AE9
LBADCGND AC11
GND
DGNDADC AA1
DGNDADC AA2
DGNDADC AA3
DGNDADC AA4
RPLL1.8 C25
RPLL3.3 D26
+1.8V_PLL
+3.3V_PLL
RPLLAGND A25
RPLLAGND A26
RPLLDGND B25
FSVREFVSS D19
FSVREFVSS D9
+2.5V_DDR
100nF (K) 16V C7930
100nF (K) 16V C7931
100nF (K) 16V C7932
100nF (K) 16V C7933
100nF (K) 16V C7934
100nF (K) 16V C7935
100nF (K) 16V C7936
100nF (K) 16V C7937
100nF (K) 16V C7938
100nF (K) 16V C7939
100nF (K) 16V C7940
100nF (K) 16V C7941
100nF (K) 16V C7942
100nF (K) 16V C7943
100nF (K) 16V C7944
22uF (M) 6.3V C7946
22uF (M) 6.3V C7947
GND
100nF (K) 16V C7982
100nF (K) 16V C7983
100nF (K) 16V C7984
100nF (K) 16V C7985
100nF (K) 16V C7986
100nF (K) 16V C7987
GND
+3.3V_LVDS_PLL
100nF (K) 16V C7953
2.2uF (K) 6.3V C7948
GND
+3.3VB_ADC
100nF (K) 16V C7957
2.2uF (K) 6.3V C7950
GND
+3.3VC_ADC
100nF (K) 16V C7971
2.2uF (K) 6.3V C7964
GND
+3.3V_PLL
100nF (K) 16V C7960
2.2uF (K) 6.3V C7952
GND
+1.8V_DLL
100nF (K) 16V C7945
GND
+1.8V_ADC
100nF (K) 16V C7954
100nF (K) 16V C7955
100nF (K) 16V C7956
22uF (M) 6.3V C7949
GND
+3.3V_ADC
100nF (K) 16V C7969
100nF (K) 16V C7980
2.2uF (K) 6.3V C7962
GND
+3.3VA_ADC
100nF (K) 16V C7970
2.2uF (K) 6.3V C7963
GND
+3.3V_LVDS
100nF (K) 16V C7966
100nF (K) 16V C7967
100nF (K) 16V C7968
2.2uF (K) 6.3V C7961
100nF (K) 16V C7988
GND
+3.3VSC_ADC
100nF (K) 16V C7958
2.2uF (K) 6.3V C7951
GND
+1.8V_PLL
100nF (K) 16V C7959
GND
FSVREF
100nF (K) 16V C7972
100nF (K) 16V C7973
GND

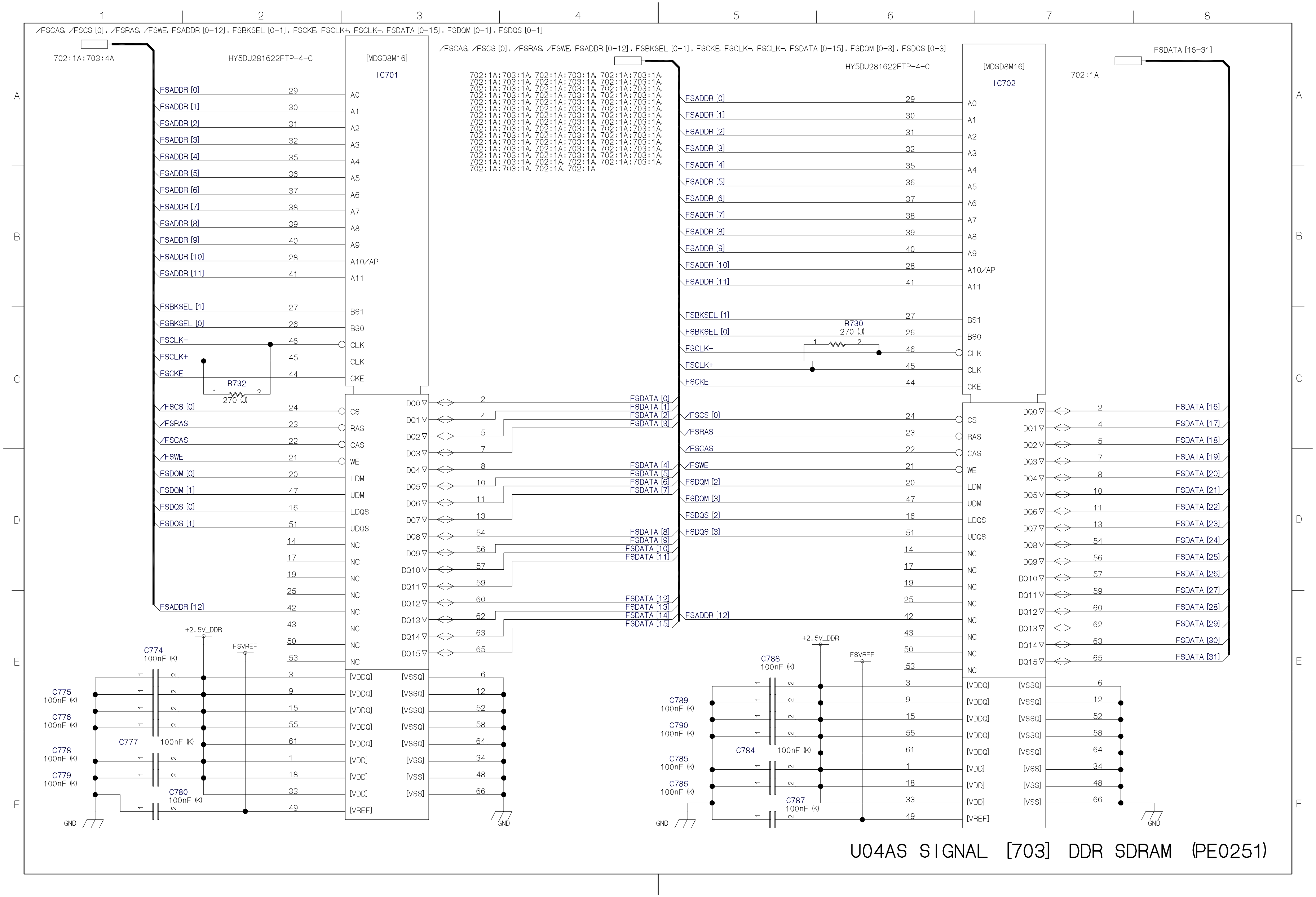
U04AS SIGNAL [700] CORTEZ POWER_1 (PE0251)


[V-U8548]
8/10
IC700
+1.8V_CORE
K10 CORE1.8
U10 CORE1.8
K11 CORE1.8
L11 CORE1.8
T11 CORE1.8
U11 CORE1.8
K16 CORE1.8
L16 CORE1.8
T16 CORE1.8
U16 CORE1.8
K17 CORE1.8
T17 CORE1.8
U17 CORE1.8
L10 DGND
M10 DGND
N10 DGND
P10 DGND
R10 DGND
T10 DGND
M11 DGND
N11 DGND
P11 DGND
R11 DGND
K12 DGND
L12 DGND
M12 DGND
GND
I/O3.3 E4
I/O3.3 F4
I/O3.3 G4
I/O3.3 H4
I/O3.3 J4
I/O3.3 K4
I/O3.3 L4
I/O3.3 AC14
I/O3.3 AC16
I/O3.3 AC18
I/O3.3 AC20
I/O3.3 AC22
I/O3.3 AB23
I/O3.3 Y23
I/O3.3 V23
I/O3.3 T23
I/O3.3 P23
I/O3.3 M23
LBADC3.3 AC9
+3.3V_I/O
+3.3V_LBADC
DGND N12
DGND P12
DGND R12
DGND T12
DGND U12
DGND K13
DGND L13
DGND M13
DGND N13
DGND P13
DGND R13
DGND T13
DGND U13
DGND K14
DGND L14
DGND M14
DGND N14
DGND P14
GND
+1.8V_CORE
100nF (K) 16V C7989
100nF (K) 16V C7900
100nF (K) 16V C7901
100nF (K) 16V C7902
100nF (K) 16V C7903
100nF (K) 16V C7904
100nF (K) 16V C7905
100nF (K) 16V C7906
100nF (K) 16V C7907
100nF (K) 16V C7908
100nF (K) 16V C7909
100nF (K) 16V C7910
100nF (K) 16V C7911
100nF (K) 16V C7912
22uF (M) 6.3V C7913
22uF (M) 6.3V C7914
GND
+3.3V_I/O
100nF (K) 16V C7976
100nF (K) 16V C7977
100nF (K) 16V C7979
100nF (K) 16V C7978
100nF (K) 16V C7917
100nF (K) 16V C7918
100nF (K) 16V C7919
100nF (K) 16V C7920
100nF (K) 16V C7921
100nF (K) 16V C7922
100nF (K) 16V C7990
100nF (K) 16V C7923
100nF (K) 16V C7924
100nF (K) 16V C7925
100nF (K) 16V C7926
100nF (K) 16V C7927
100nF (K) 16V C7928
100nF (K) 16V C7929
22uF (M) 6.3V C7915
22uF (M) 6.3V C7916
GND
+3.3V_LBADC
C7975 16V 100nF (K)
C7974 6.3V 2.2uF (K)
C7981 6.3V 1uF (K)
GND
1 2 3 4 5 6 7 8
A B C D E F

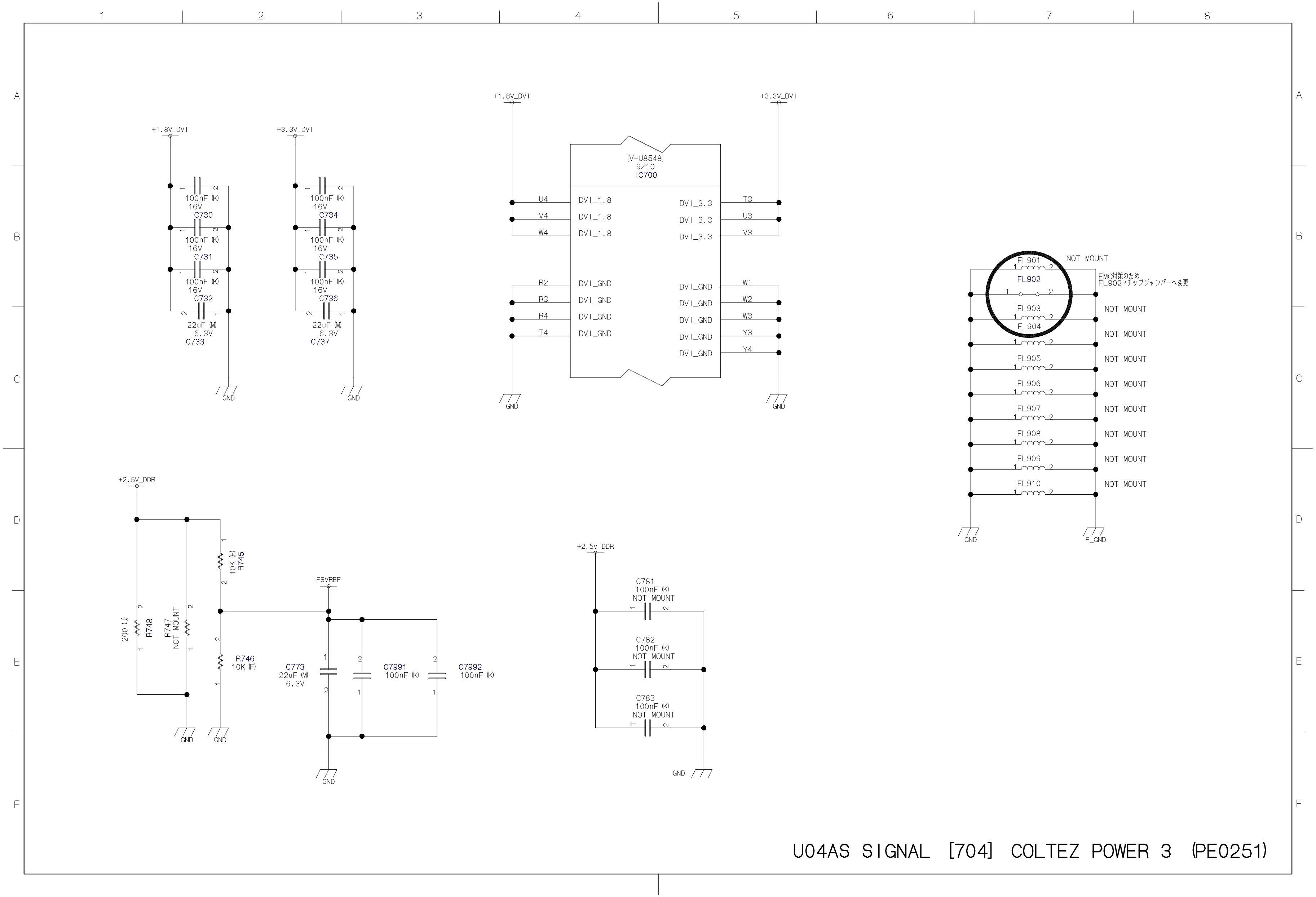
U04AS SIGNAL [701] CORTEZ POWER_2 (PE0251)


/FSCAS, /FSCS [0], /FSRAS, /FSWE, FSADDR [0-12], FSBKSEL [0-1], FSCKE, FSCLK+, FSCLK-, FSDATA [0-31], FSDQM [0-3], FSDQS [0-3]
703:1A;703:4A, 703:1A;703:4A, 703:1A;703:4A,
703:1A;703:4A, 703:1A;703:4A, 703:8A, 703:8A,
703:8A, 703:8A, 703:8A, 703:8A, 703:8A, 703:8A,
703:8A, 703:8A, 703:1A;703:4A, 703:1A;703:4A,
703:4A, 703:4A, 703:1A;703:4A, 703:1A;703:4A,
703:4A, 703:4A
[V-U8548]
5/10
IC700
FSDATA0
FSDATA1
FSDATA2
FSDATA3
FSDATA4
FSDATA5
FSDATA6
FSDATA7
FSDATA8
FSDATA9
FSDATA10
FSDATA11
FSDATA12
FSDATA13
FSDATA14
FSDATA15
FSDATA16
FSDATA17
FSDATA18
FSDATA19
FSDATA20
FSDATA21
FSDATA22
FSDATA23
FSDATA24
FSDATA25
FSDATA26
FSDATA27
FSDATA28
FSDATA29
FSDATA30
FSDATA31
FSBKSEL1
FSBKSEL0
FSCKE
FSRAS
FSCAS
FSWE
FSDQM3
FSDQM2
FSDQM1
FSDQM0
FSDQS3
FSDQS2
FSDQS1
FSDQS0
FSCS1
FSCS0
FSCLKn
FSCLKp
FSADDR12
FSADDR11
FSADDR10
FSADDR9
FSADDR8
FSADDR7
FSADDR6
FSADDR5
FSADDR4
FSADDR3
FSADDR2
FSADDR1
FSADDR0
B4 A4 B5 A5 B7 A7 B8 A8 B9 A9 B10 A10 B12 A12 B13 A13 B15 A15 B16 A16 B18 A18 B19 A19 B20 A20 B21 A21 B23 A23 B24 A24
C20 C21 C4 C24 D24 C23 B22 B17 A11 A6 A22 A17 B11 B6 C22 D21 C5 D5 C11 C14 D16 C12 C6 C7 C8 C10 C13 C15 C16 C17 C18
FSDATA [15] FSDATA [14] FSDATA [13] FSDATA [12]
RM700 [RMX4A] 33 (J)
FSDATA [11] FSDATA [10] FSDATA [9] FSDATA [8]
RM701 [RMX4A] 33 (J)
FSDATA [7] FSDATA [6] FSDATA [5] FSDATA [4]
RM702 [RMX4A] 33 (J)
FSDATA [3] FSDATA [2] FSDATA [1] FSDATA [0]
RM703 [RMX4A] 33 (J)
FSDATA [31] FSDATA [30] FSDATA [29] FSDATA [28]
RM704 [RMX4A] 33 (J)
FSDATA [27] FSDATA [26] FSDATA [25] FSDATA [24]
RM705 [RMX4A] 33 (J)
FSDATA [23] FSDATA [22] FSDATA [21] FSDATA [20]
RM706 [RMX4A] 33 (J)
FSDATA [19] FSDATA [18] FSDATA [17] FSDATA [16]
RM737 [RMX4A] 33 (J)
R736 33 (J)
R735 33 (J)
R734 33 (J)
FSBKSEL [1]
FSBKSEL [0]
FSCKE
[RMX4A] RM707 33 (J)
/FSRAS
/FSCAS
/FSWE
RM715 [RMX4A] 33 (J)
RM714 [RMX4A] 33 (J)
RM713 [RMX4A] 33 (J)
RM712 [RMX4A] 33 (J)
RM711 [RMX4A] 33 (J)
GND
GND
FSDQM [2]
FSDQM [3]
FSDQM [0]
FSDQM [1]
FSDQS [2]
FSDQS [3]
FSDQS [0]
FSDQS [1]
R716 NOT MOUNT
R717 33 (J)
/FSCS [0]
R718
FSCLK-
R719
FSCLK+
[RMX4A] RM708 33 (J)
FSADDR [11]
FSADDR [4]
FSADDR [9]
FSADDR [12]
R707 33 (J)
FSADDR [10]
RM709 [RMX4A] 33 (J)
FSADDR [8]
FSADDR [7]
FSADDR [6]
FSADDR [5]
RM710 [RMX4A] 33 (J)
FSADDR [3]
FSADDR [2]
FSADDR [1]
FSADDR [0]
1 2 3 4 5 6 7 8
A B C D E F

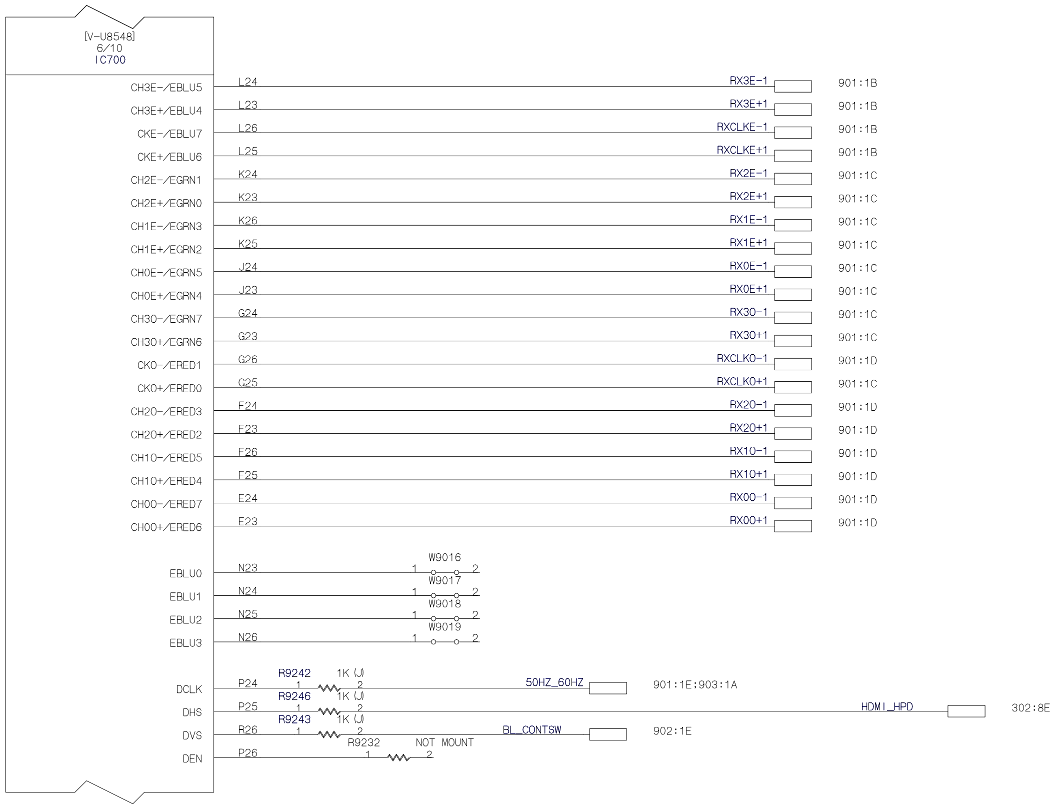
U04AS SIGNAL [702] CORTEZ DDR I/F (PE0251)


/FSCAS, /FSCS [0], /FSRAS, /FSWE, FSADDR [0-12], FSBKSEL [0-1], FSCKE, FSCLK+, FSCLK-, FSDATA [0-15], FSDQM [0-1], FSDQS [0-1]
702:1A:703:4A
HY5DU281622FTP-4-C
[MDSD8M16]
IC701
FSADDR [0]
FSADDR [1]
FSADDR [2]
FSADDR [3]
FSADDR [4]
FSADDR [5]
FSADDR [6]
FSADDR [7]
FSADDR [8]
FSADDR [9]
FSADDR [10]
FSADDR [11]
FSBKSEL [1]
FSBKSEL [0]
FSCLK-
FSCLK+
FSCKE
R732
270 (J)
/FSCS [0]
/FSRAS
/FSCAS
/FSWE
FSDQM [0]
FSDQM [1]
FSDQS [0]
FSDQS [1]
FSADDR [12]
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10/AP
A11
BS1
BS0
CLK
CLK
CKE
CS
RAS
CAS
WE
LDM
UDM
LDQS
UDQS
NC
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
[VDDQ]
[VSSQ]
[VDD]
[VSS]
[VREF]
+2.5V_DDR
FSVREF
C774
100nF (K)
C775
100nF (K)
C776
100nF (K)
C777
100nF (K)
C778
100nF (K)
C779
100nF (K)
C780
100nF (K)
GND
FSDATA [0]
FSDATA [1]
FSDATA [2]
FSDATA [3]
FSDATA [4]
FSDATA [5]
FSDATA [6]
FSDATA [7]
FSDATA [8]
FSDATA [9]
FSDATA [10]
FSDATA [11]
FSDATA [12]
FSDATA [13]
FSDATA [14]
FSDATA [15]
/FSCAS, /FSCS [0], /FSRAS, /FSWE, FSADDR [0-12], FSBKSEL [0-1], FSCKE, FSCLK+, FSCLK-, FSDATA [0-15], FSDQM [0-3], FSDQS [0-3]
702:1A:703:1A, 702:1A:703:1A, 702:1A:703:1A, 702:1A, 702:1A
HY5DU281622FTP-4-C
[MDSD8M16]
IC702
FSDATA [16-31]
702:1A
R730
270 (J)
FSDQM [2]
FSDQM [3]
FSDQS [2]
FSDQS [3]
FSDATA [16]
FSDATA [17]
FSDATA [18]
FSDATA [19]
FSDATA [20]
FSDATA [21]
FSDATA [22]
FSDATA [23]
FSDATA [24]
FSDATA [25]
FSDATA [26]
FSDATA [27]
FSDATA [28]
FSDATA [29]
FSDATA [30]
FSDATA [31]
C784
100nF (K)
C785
100nF (K)
C786
100nF (K)
C787
100nF (K)
C788
100nF (K)
C789
100nF (K)
C790
100nF (K)
1
2
3
4
5
6
7
8
A
B
C
D
E
F

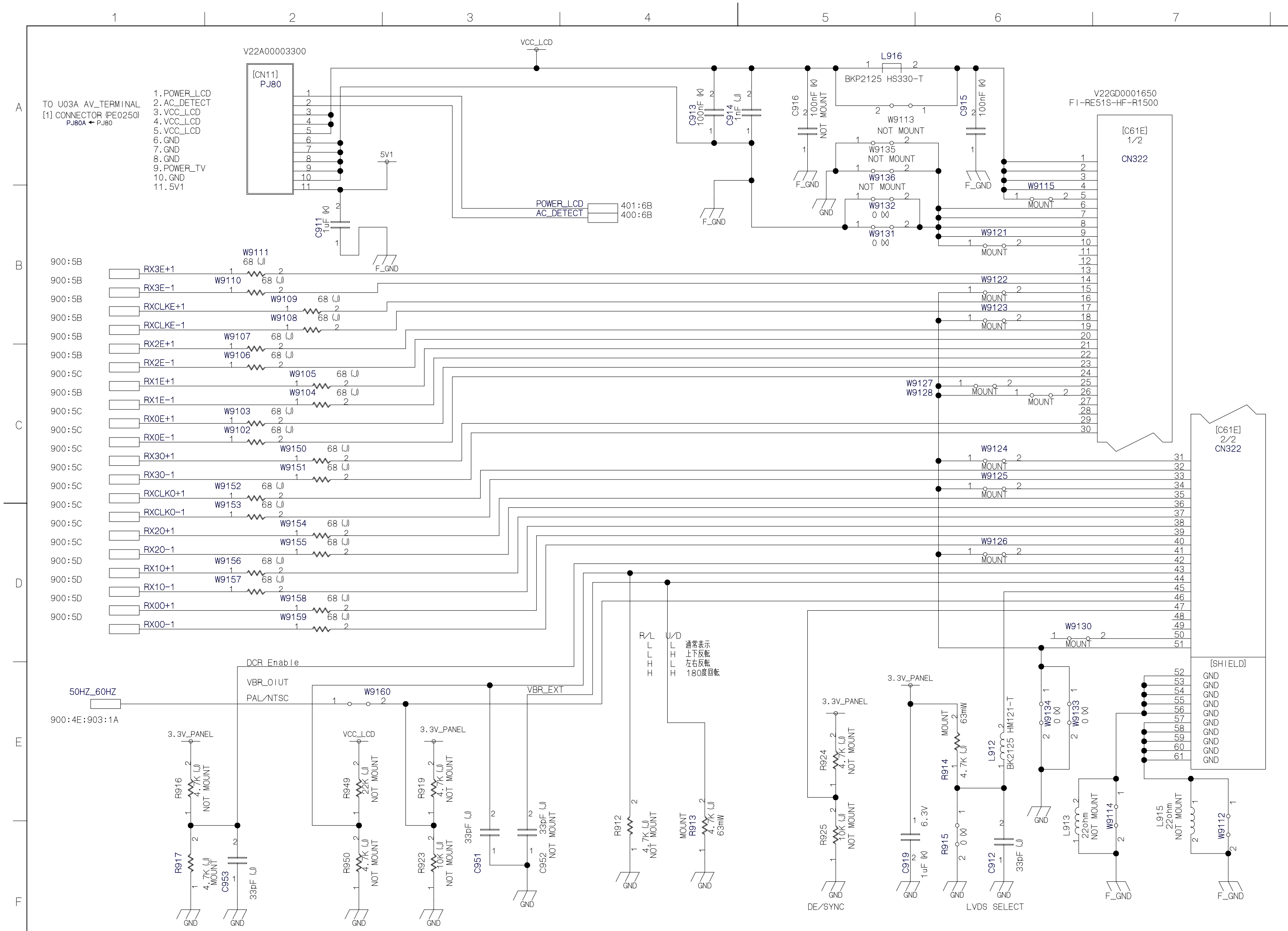
U04AS SIGNAL [703] DDR SDRAM (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
+1.8V_DVI
+3.3V_DVI
100nF (K)
16V
C730
C731
C732
22uF (M)
6.3V
C733
C734
C735
C736
C737
GND
[V-U8548]
9/10
IC700
U4
V4
W4
DVI_1.8
DVI_3.3
T3
U3
V3
R2
R3
R4
T4
DVI_GND
W1
W2
W3
Y3
Y4
FL901
NOT MOUNT
FL902
EMC対策のため
FL902→チップジャンパーへ変更
FL903
FL904
FL905
FL906
FL907
FL908
FL909
FL910
F_GND
+2.5V_DDR
R745
10K (F)
R748
200 (J)
R747
NOT MOUNT
R746
10K (F)
FSVREF
C773
22uF (M)
6.3V
C7991
100nF (K)
C7992
100nF (K)
C781
C782
C783
100nF (K)
NOT MOUNT

U04AS SIGNAL [704] COLTEZ POWER 3 (PE0251)


[V-U8548]
6/10
IC700
CH3E-/EBLU5 L24 RX3E-1 901:1B
CH3E+/EBLU4 L23 RX3E+1 901:1B
CKE-/EBLU7 L26 RXCLKE-1 901:1B
CKE+/EBLU6 L25 RXCLKE+1 901:1B
CH2E-/EGRN1 K24 RX2E-1 901:1C
CH2E+/EGRN0 K23 RX2E+1 901:1C
CH1E-/EGRN3 K26 RX1E-1 901:1C
CH1E+/EGRN2 K25 RX1E+1 901:1C
CH0E-/EGRN5 J24 RX0E-1 901:1C
CH0E+/EGRN4 J23 RX0E+1 901:1C
CH3O-/EGRN7 G24 RX3O-1 901:1C
CH3O+/EGRN6 G23 RX3O+1 901:1C
CKO-/ERED1 G26 RXCLKO-1 901:1D
CKO+/ERED0 G25 RXCLKO+1 901:1C
CH2O-/ERED3 F24 RX2O-1 901:1D
CH2O+/ERED2 F23 RX2O+1 901:1D
CH1O-/ERED5 F26 RX1O-1 901:1D
CH1O+/ERED4 F25 RX1O+1 901:1D
CH0O-/ERED7 E24 RX0O-1 901:1D
CH0O+/ERED6 E23 RX0O+1 901:1D
EBLU0 N23 W9016 1 2
EBLU1 N24 W9017 1 2
EBLU2 N25 W9018 1 2
EBLU3 N26 W9019 1 2
DCLK P24 R9242 1K (J) 1 2 50HZ_60HZ 901:1E:903:1A
DHS P25 R9246 1K (J) 1 2 HDMI_HPD 302:8E
DVS R26 R9243 1K (J) 1 2 BL_CONTSW 902:1E
DEN P26 R9232 NOT MOUNT 1 2

U04AS SIGNAL [900] CORTEZ LVDS_OUT (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
TO U03A AV_TERMINAL
[1] CONNECTOR (PE0250)
PJ80A ← PJ80
1.POWER_LCD
2.AC_DETECT
3.VCC_LCD
4.VCC_LCD
5.VCC_LCD
6.GND
7.GND
8.GND
9.POWER_TV
10.GND
11.5V1
V22A00003300
[CN11]
PJ80
VCC_LCD
5V1
C911
1uF (K)
F_GND
POWER_LCD
AC_DETECT
401:6B
400:6B
C913
100nF (K)
C914
1nF (J)
F_GND
L916
BKP2125 HS330-T
C916
100nF (K)
NOT MOUNT
W9113
NOT MOUNT
W9135
NOT MOUNT
W9136
NOT MOUNT
W9132
0 (X)
W9131
0 (X)
C915
100nF (K)
W9115
MOUNT
W9121
MOUNT
W9122
MOUNT
W9123
MOUNT
W9127
W9128
MOUNT
W9124
MOUNT
W9125
MOUNT
W9126
MOUNT
W9130
MOUNT
V22GD0001650
FI-RE51S-HF-R1500
[C61E]
1/2
CN322
[C61E]
2/2
CN322
[SHIELD]
GND
900:5B
900:5C
900:5D
RX3E+1
RX3E-1
RXCLKE+1
RXCLKE-1
RX2E+1
RX2E-1
RX1E+1
RX1E-1
RX0E+1
RX0E-1
RX30+1
RX30-1
RXCLKO+1
RXCLKO-1
RX20+1
RX20-1
RX10+1
RX10-1
RX00+1
RX00-1
W9111 68 (J)
W9110 68 (J)
W9109 68 (J)
W9108 68 (J)
W9107 68 (J)
W9106 68 (J)
W9105 68 (J)
W9104 68 (J)
W9103 68 (J)
W9102 68 (J)
W9150 68 (J)
W9151 68 (J)
W9152 68 (J)
W9153 68 (J)
W9154 68 (J)
W9155 68 (J)
W9156 68 (J)
W9157 68 (J)
W9158 68 (J)
W9159 68 (J)
DCR Enable
VBR_OIUT
PAL/NTSC
VBR_EXT
50HZ_60HZ
900:4E:903:1A
W9160
3.3V_PANEL
R916
4.7K (J)
NOT MOUNT
R917
4.7K (J)
MOUNT
C953
33pF (J)
VCC_LCD
R949
22K (J)
NOT MOUNT
R950
4.7K (J)
NOT MOUNT
R919
4.7K (J)
NOT MOUNT
R923
10K (J)
NOT MOUNT
C951
33pF (J)
C952
33pF (J)
NOT MOUNT
R912
4.7K (J)
NOT MOUNT
MOUNT
R913
4.7K (J)
63mW
R924
4.7K (J)
NOT MOUNT
R925
10K (J)
NOT MOUNT
DE/SYNC
C919
1uF (K)
6.3V
MOUNT
R914
4.7K (J)
63mW
R915
0 (X)
L912
BK2125 HM121-T
C912
33pF (J)
LVDS SELECT
W9134
0 (X)
W9133
0 (X)
L913
22ohm
NOT MOUNT
W9114
L915
22ohm
NOT MOUNT
W9112
F_GND
GND

R/L	U/D	
L	L	通常表示
L	H	上下反転
H	L	左右反転
H	H	180度回転

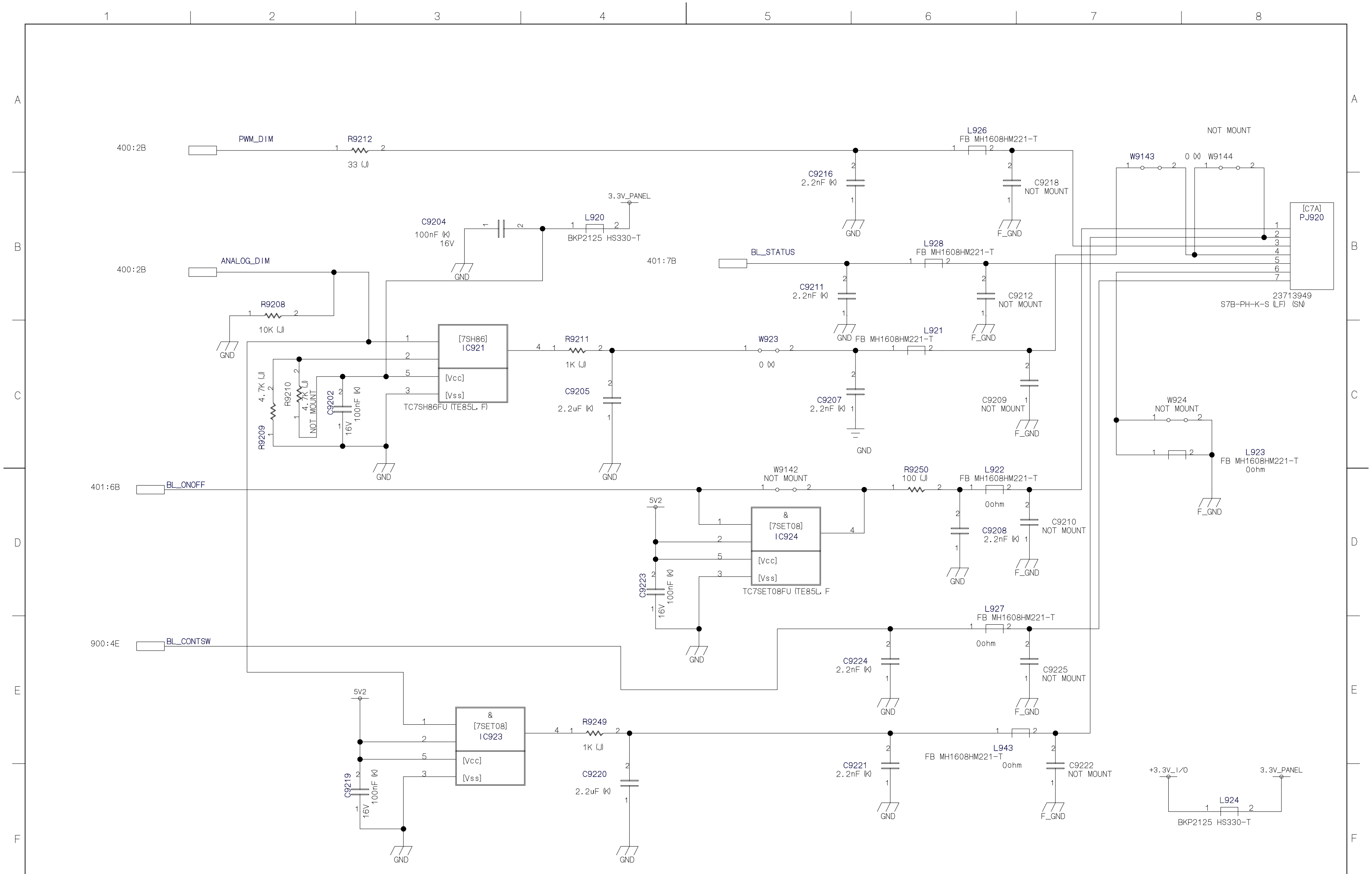
Full HD
42V LPL

1? +12V
2? +12V
3? +12V
4? +12V
5? NC
6? GND
7? GND
8? GND
9? Reserved (GND)
10?Reserved (GND)
11?Reserved (NC)
12?Reserved (NC)
13?RE3P
14?RE3N
15?GND
16?RECLKP
17?RECLKN
18?GND
19?RE2P
20?RE2N
21?RE1P
22?RE1N
23?RE0P
24?RE0N
25?Reserved (GND)
26?Reserved (GND)
27?Reserved (NC)
28?Reserved (NC)
29?RO3P
30?RO3N
31?GND
32?ROCLKP
33?ROCLKN
34?GND
35?RO2P
36?RO2N
37?RO1P
38?RO1N
39?RO0P
40?RO0N
41?GND
42?DCR Enable
43?VBR_EXT
44?VBR_OUT
45?LVDS Select
46?Reserved (NC)
47?Reserved (NC)
48?Reserved (NC)
49?Reserved (NC)
50?Reserved (NC)
51?GND
(1<->51 Reversed)

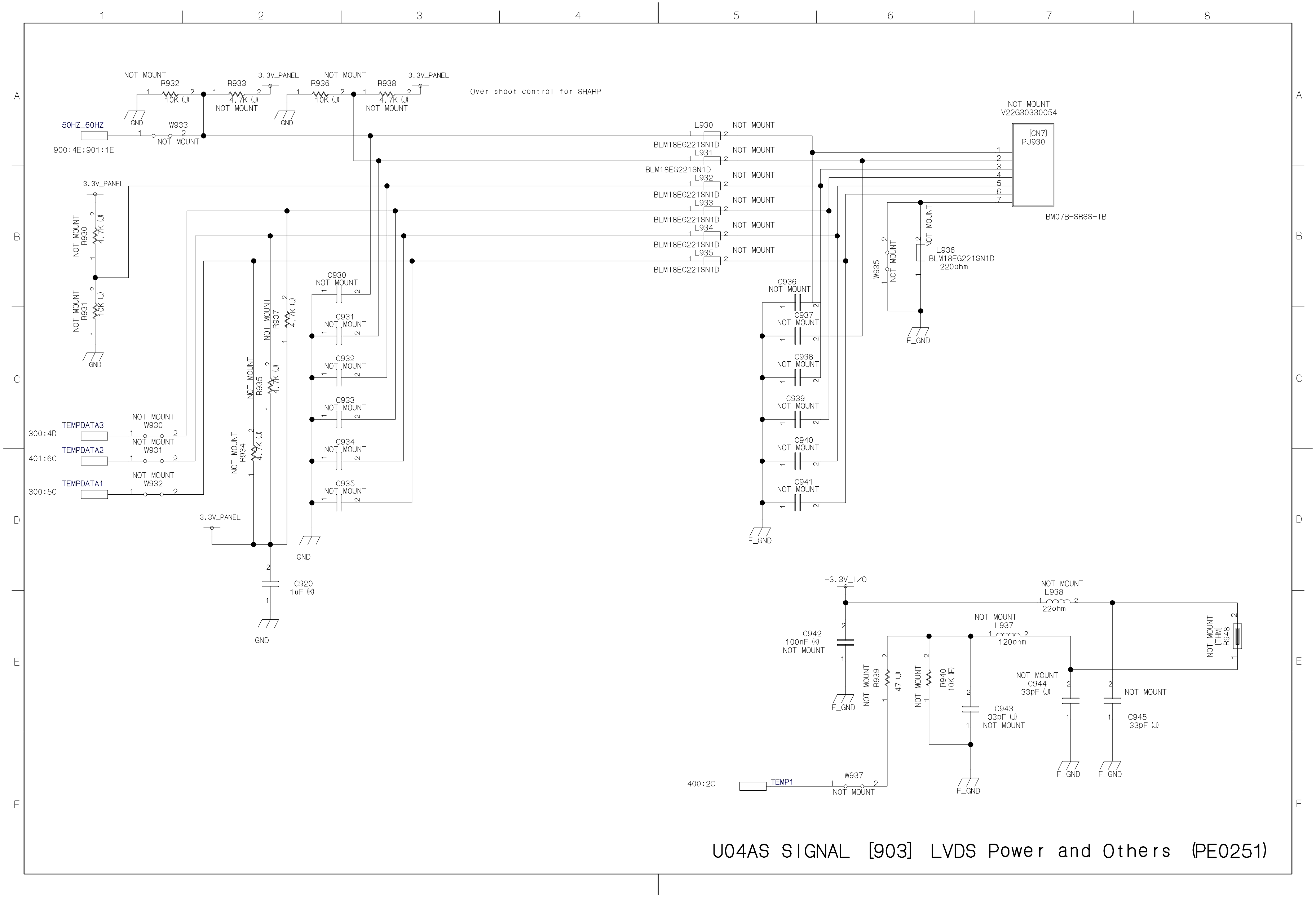
WXGA LCD

	(SHP)	(LPL)
1	+5V	+12V
2	+5V	+12V
3	+5V	+12V
4	+5V	+12V
5	GND	
6	GND	
7	GND	
8	GND	
9	SELLVDS	
10	OPEN	DCR Enable
11	GND	
12	RA-	
13	RA+	
14	GND	
15	RB-	
16	RB+	
17	GND	
18	RC-	
19	RC+	
20	GND	
21	RCLK-	
22	RCLK+	
23	GND	
24	RD-	
25	RD+	
26	GND	
27	R/L	VBR_OUT
28	U/D	VBR_EXT
29	OPEN	GND
30	OPEN	GND

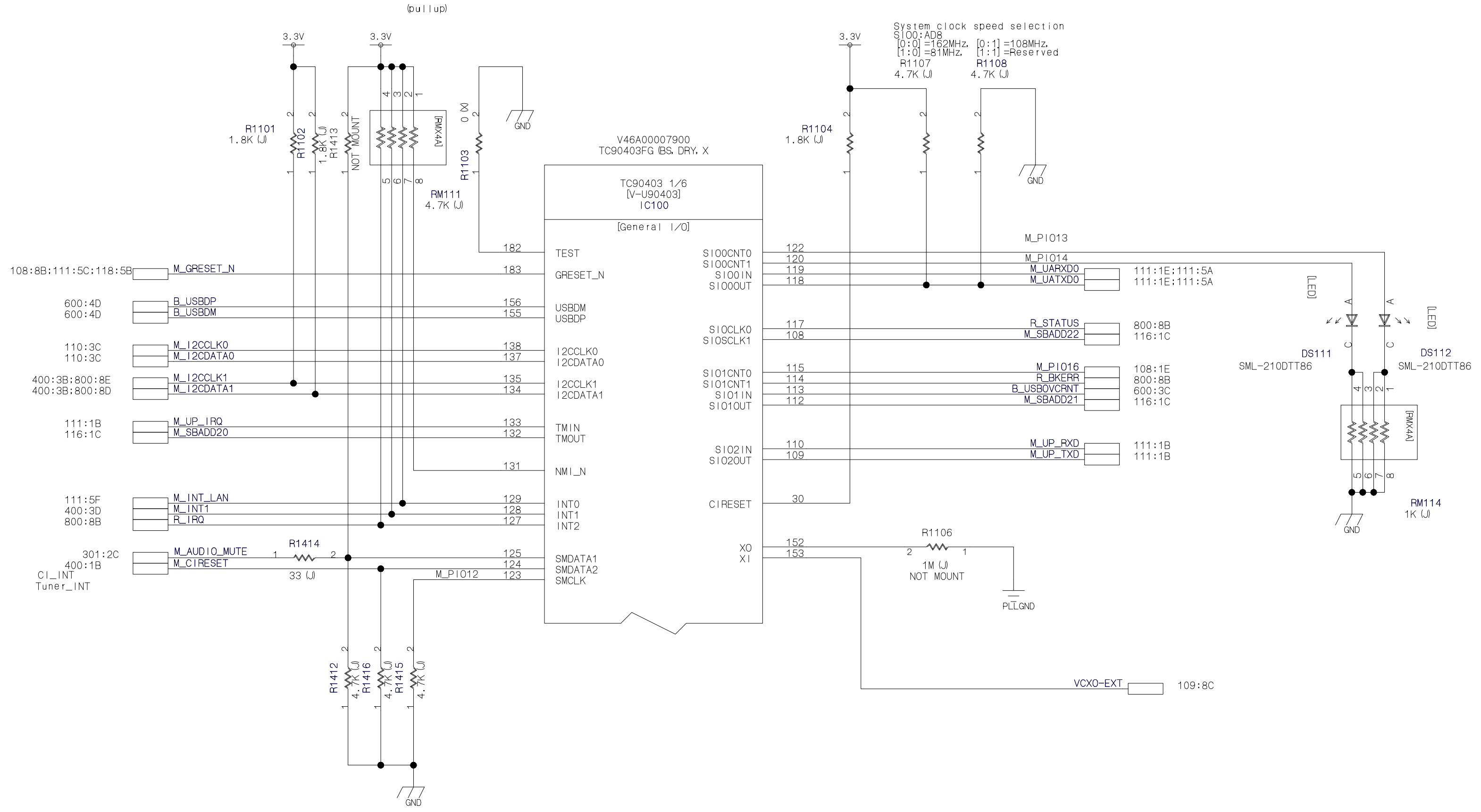
U04AS SIGNAL [901] LVDS CONNECTOR (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
400:2B
PWM_DIM
R9212
33 (J)
400:2B
ANALOG_DIM
R9208
10K (J)
GND
C9204
100nF (K)
16V
3.3V_PANEL
L920
BKP2125 HS330-T
401:7B
BL_STATUS
[7SH86]
IC921
[Vcc]
[Vss]
TC7SH86FU (TE85L, F)
R9209
4.7K (J)
R9210
4.7K (J)
NOT MOUNT
C9202
100nF (K)
16V
R9211
1K (J)
C9205
2.2uF (K)
W923
0 (X)
C9216
2.2nF (K)
L926
FB MH1608HM221-T
C9218
NOT MOUNT
F_GND
L928
FB MH1608HM221-T
C9211
2.2nF (K)
C9212
NOT MOUNT
L921
FB MH1608HM221-T
C9207
2.2nF (K)
C9209
NOT MOUNT
NOT MOUNT
W9143
0 (X)
W9144
[C7A]
PJ920
23713949
S7B-PH-K-S (LF) (SN)
W924
NOT MOUNT
L923
FB MH1608HM221-T
0ohm
401:6B
BL_ONOFF
W9142
NOT MOUNT
R9250
100 (J)
L922
FB MH1608HM221-T
0ohm
5V2
&
[7SET08]
IC924
TC7SET08FU (TE85L, F
C9223
100nF (K)
16V
C9208
2.2nF (K)
C9210
NOT MOUNT
900:4E
BL_CONTSW
L927
FB MH1608HM221-T
0ohm
C9224
2.2nF (K)
C9225
NOT MOUNT
[7SET08]
IC923
C9219
100nF (K)
16V
R9249
1K (J)
C9220
2.2uF (K)
C9221
2.2nF (K)
L943
FB MH1608HM221-T
0ohm
C9222
NOT MOUNT
+3.3V_I/O
3.3V_PANEL
L924
BKP2125 HS330-T

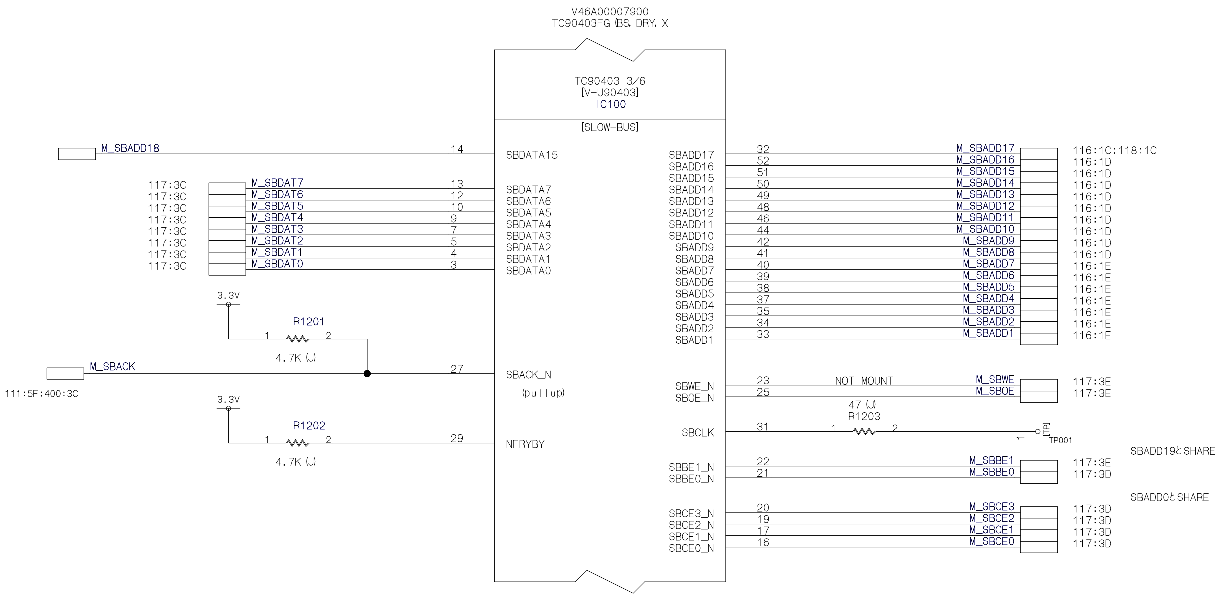
U04AS SIGNAL [902] Power Connector and Dimming (PE0251)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
NOT MOUNT
R932
10K (J)
R933
4.7K (J)
NOT MOUNT
3.3V_PANEL
NOT MOUNT
R936
10K (J)
R938
4.7K (J)
NOT MOUNT
3.3V_PANEL
Over shoot control for SHARP
GND
GND
50HZ_60HZ
W933
NOT MOUNT
900:4E:901:1E
L930
NOT MOUNT
BLM18EG221SN1D
L931
NOT MOUNT
BLM18EG221SN1D
L932
NOT MOUNT
BLM18EG221SN1D
L933
NOT MOUNT
BLM18EG221SN1D
L934
NOT MOUNT
BLM18EG221SN1D
L935
NOT MOUNT
BLM18EG221SN1D
NOT MOUNT
V22G30330054
[CN7]
PJ930
BM07B-SRSS-TB
3.3V_PANEL
NOT MOUNT
R930
4.7K (J)
NOT MOUNT
R931
10K (J)
GND
W935
NOT MOUNT
NOT MOUNT
L936
BLM18EG221SN1D
220ohm
F_GND
C930
NOT MOUNT
C931
NOT MOUNT
C932
NOT MOUNT
C933
NOT MOUNT
C934
NOT MOUNT
C935
NOT MOUNT
NOT MOUNT
R937
4.7K (J)
NOT MOUNT
R935
4.7K (J)
NOT MOUNT
R934
4.7K (J)
C936
NOT MOUNT
C937
NOT MOUNT
C938
NOT MOUNT
C939
NOT MOUNT
C940
NOT MOUNT
C941
NOT MOUNT
F_GND
TEMPDATA3
300:4D
NOT MOUNT
W930
TEMPDATA2
401:6C
NOT MOUNT
W931
TEMPDATA1
300:5C
NOT MOUNT
W932
3.3V_PANEL
GND
C920
1uF (K)
GND
+3.3V_I/O
NOT MOUNT
L938
22ohm
C942
100nF (K)
NOT MOUNT
F_GND
NOT MOUNT
L937
120ohm
NOT MOUNT
[THM]
R948
NOT MOUNT
R939
47 (J)
NOT MOUNT
R940
10K (F)
C943
33pF (J)
NOT MOUNT
NOT MOUNT
C944
33pF (J)
NOT MOUNT
C945
33pF (J)
F_GND
F_GND
F_GND
400:2C
TEMP1
W937
NOT MOUNT

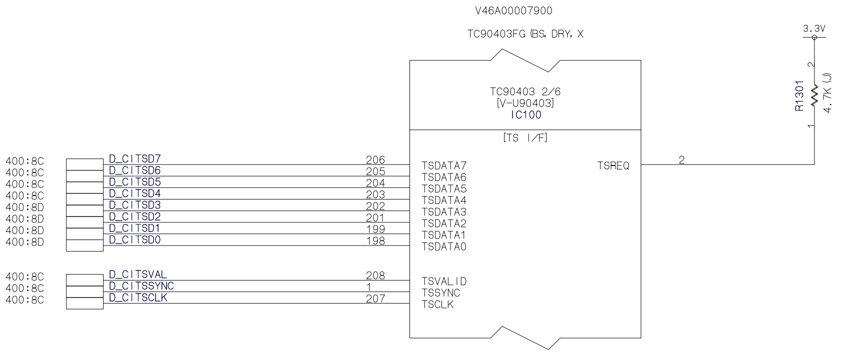
U04AS SIGNAL [903] LVDS Power and Others (PE0251)


(pullup)
3.3V
3.3V
3.3V
System clock speed selection
SIO0:AD8
[0:0] =162MHz, [0:1] =108MHz,
[1:0] =81MHz, [1:1] =Reserved
R1107
4.7K (J)
R1108
4.7K (J)
R1101
1.8K (J)
R1102
1.8K (J)
R1413
NOT MOUNT
RM111
4.7K (J)
[RMX4A]
0 (X)
R1103
GND
R1104
1.8K (J)
V46A00007900
TC90403FG (BS, DRY, X
TC90403 1/6
[V-U90403]
IC100
[General I/O]
182 TEST
183 GRESET_N
156 USBDM
155 USBDP
138 I2CCLK0
137 I2CDATA0
135 I2CCLK1
134 I2CDATA1
133 TMIN
132 TMOUT
131 NMI_N
129 INT0
128 INT1
127 INT2
125 SMDATA1
124 SMDATA2
123 SMCLK
SIO0CNT0 122
SIO0CNT1 120
SIO0IN 119
SIO0OUT 118
SIOCLK0 117
SIOSCLK1 108
SIO1CNT0 115
SIO1CNT1 114
SIO1IN 113
SIO1OUT 112
SIO2IN 110
SIO2OUT 109
CIRESET 30
XO 152
XI 153
108:8B:111:5C:118:5B M_GRESET_N
600:4D B_USBDP
600:4D B_USBDM
110:3C M_I2CCLK0
110:3C M_I2CDATA0
400:3B:800:8E M_I2CCLK1
400:3B:800:8D M_I2CDATA1
111:1B M_UP_IRQ
116:1C M_SBADD20
111:5F M_INT_LAN
400:3D M_INT1
800:8B R_IRQ
301:2C M_AUDIO_MUTE
400:1B M_CIRESET
CI_INT
Tuner_INT
R1414
33 (J)
M_PIO12
R1412
4.7K (J)
R1416
4.7K (J)
R1415
4.7K (J)
GND
M_PIO13
M_PIO14
M_UARXD0 111:1E:111:5A
M_UATXD0 111:1E:111:5A
R_STATUS 800:8B
M_SBADD22 116:1C
M_PIO16 108:1E
R_BKERR 800:8B
B_USBOVCRNT 600:3C
M_SBADD21 116:1C
M_UP_RXD 111:1B
M_UP_TXD 111:1B
[LED]
[LED]
DS111
SML-210DTT86
DS112
SML-210DTT86
RM114
1K (J)
GND
R1106
1M (J)
NOT MOUNT
PLLGND
VCXO-EXT 109:8C

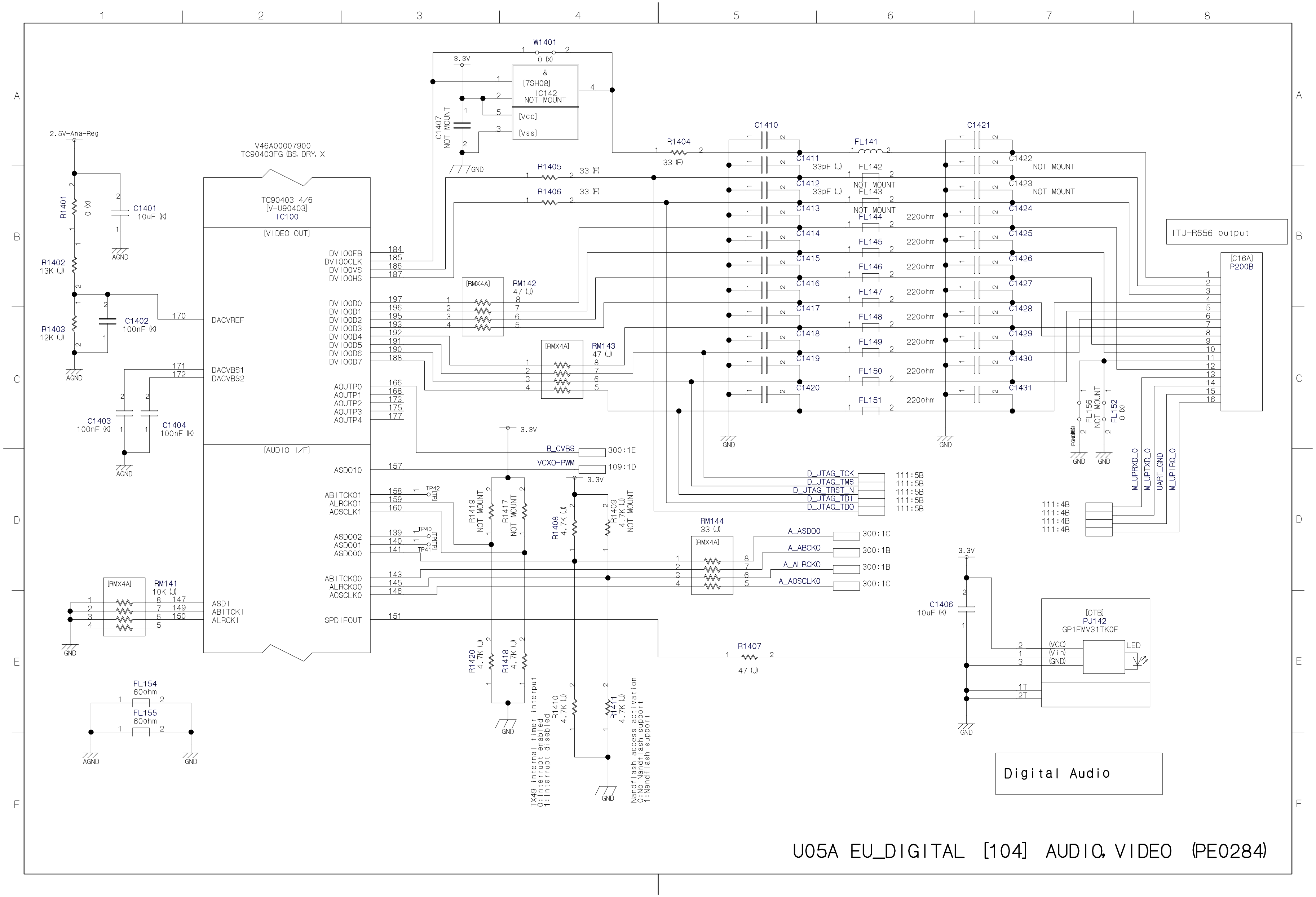
U05A EU_DIGITAL [101] Donau SIO/I2C/RST etc (PE0284)


V46A00007900
TC90403FG (BS, DRY, X
TC90403 3/6
[V-U90403]
IC100
[SLOW-BUS]
M_SBADD18
14
SBDATA15
117:3C
117:3C
117:3C
117:3C
117:3C
117:3C
117:3C
117:3C
M_SBDAT7
M_SBDAT6
M_SBDAT5
M_SBDAT4
M_SBDAT3
M_SBDAT2
M_SBDAT1
M_SBDAT0
13
12
10
9
7
5
4
3
SBDATA7
SBDATA6
SBDATA5
SBDATA4
SBDATA3
SBDATA2
SBDATA1
SBDATA0
3.3V
R1201
1
2
4.7K (J)
M_SBACK
111:5F:400:3C
27
SBACK_N
(pullup)
3.3V
R1202
1
2
4.7K (J)
29
NFRYBY
SBADD17
SBADD16
SBADD15
SBADD14
SBADD13
SBADD12
SBADD11
SBADD10
SBADD9
SBADD8
SBADD7
SBADD6
SBADD5
SBADD4
SBADD3
SBADD2
SBADD1
32
52
51
50
49
48
46
44
42
41
40
39
38
37
35
34
33
M_SBADD17
M_SBADD16
M_SBADD15
M_SBADD14
M_SBADD13
M_SBADD12
M_SBADD11
M_SBADD10
M_SBADD9
M_SBADD8
M_SBADD7
M_SBADD6
M_SBADD5
M_SBADD4
M_SBADD3
M_SBADD2
M_SBADD1
116:1C:118:1C
116:1D
116:1D
116:1D
116:1D
116:1D
116:1D
116:1D
116:1D
116:1D
116:1E
116:1E
116:1E
116:1E
116:1E
116:1E
116:1E
SBWE_N
SBOE_N
23
25
NOT MOUNT
M_SBWE
M_SBOE
117:3E
117:3E
47 (J)
R1203
SBCLK
31
1
2
1
[TP]
TP001
SBADD19と SHARE
SBBE1_N
SBBE0_N
22
21
M_SBBE1
M_SBBE0
117:3E
117:3D
SBADD0と SHARE
SBCE3_N
SBCE2_N
SBCE1_N
SBCE0_N
20
19
17
16
M_SBCE3
M_SBCE2
M_SBCE1
M_SBCE0
117:3D
117:3D
117:3D
117:3D

U05A EU_DIGITAL [102] Donau SB (PE0284)


V46A00007900
TC90403FG (BS, DRY, X
TC90403 2/6
[V-U90403]
IC100
[TS I/F]
3.3V
2
R1301
4.7K (J)
1
2
TSREQ
400:8C
400:8C
400:8C
400:8C
400:8D
400:8D
400:8D
400:8D
D_CITSD7
D_CITSD6
D_CITSD5
D_CITSD4
D_CITSD3
D_CITSD2
D_CITSD1
D_CITSD0
206
205
204
203
202
201
199
198
TSDATA7
TSDATA6
TSDATA5
TSDATA4
TSDATA3
TSDATA2
TSDATA1
TSDATA0
400:8C
400:8C
400:8C
D_CITSVAL
D_CITSSYNC
D_CITSCLK
208
1
207
TSVALID
TSSYNC
TSCLK

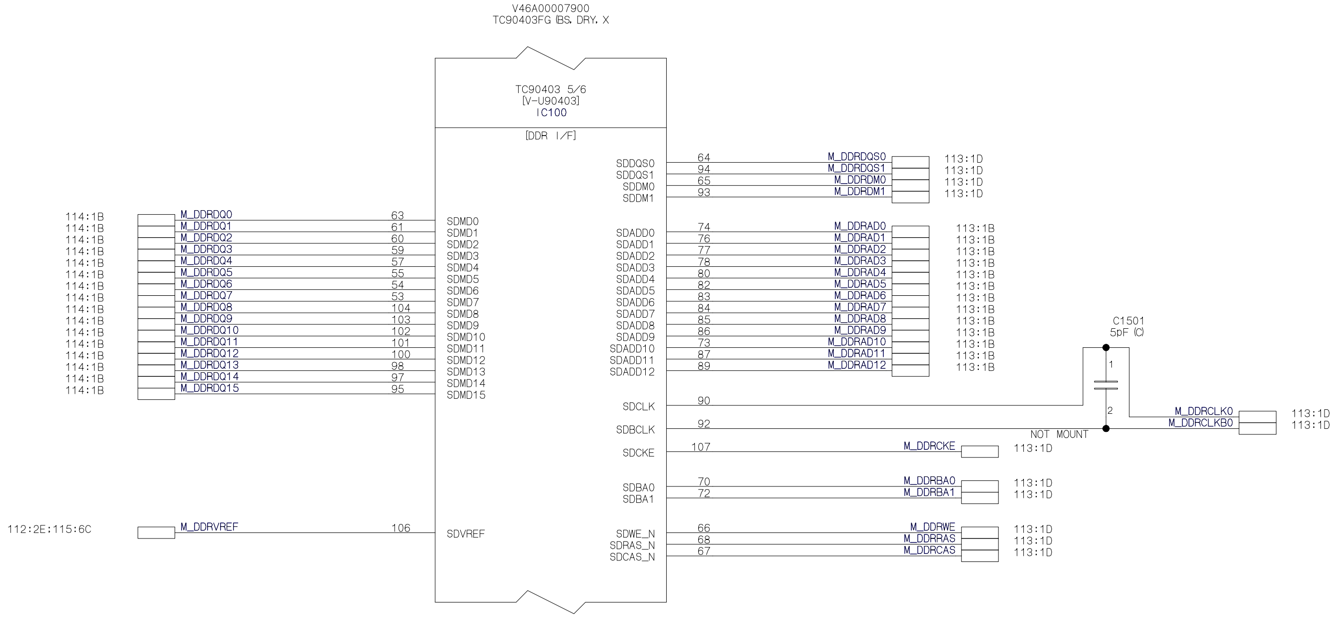
U05A EU_DIGITAL [103] TS (PE0284)



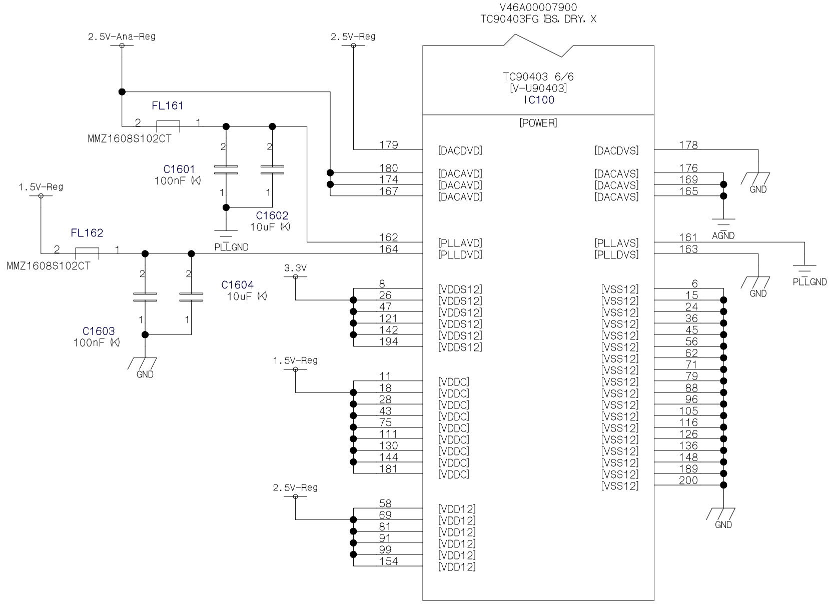
W1401
0 (X)
&
[7SH08]
IC142
NOT MOUNT
[Vcc]
[Vss]
3.3V
C1407
NOT MOUNT
GND
2.5V-Ana-Reg
V46A00007900
TC90403FG (BS, DRY, X
TC90403 4/6
[V-U90403]
IC100
[VIDEO OUT]
DVIOOFB
DVIOOCLK
DVIOOVS
DVIOOHS
DVIOOD0
DVIOOD1
DVIOOD2
DVIOOD3
DVIOOD4
DVIOOD5
DVIOOD6
DVIOOD7
DACVREF
DACVBS1
DACVBS2
AOUTP0
AOUTP1
AOUTP2
AOUTP3
AOUTP4
[AUDIO I/F]
ASDO10
ABITCKO1
ALRCKO1
AOSCLK1
ASDO02
ASDO01
ASDO00
ABITCKO0
ALRCKO0
AOSCLKO
SPDIFOUT
ASDI
ABITCKI
ALRCKI
R1401
0 (X)
C1401
10uF (K)
R1402
13K (J)
R1403
12K (J)
C1402
100nF (K)
C1403
100nF (K)
C1404
100nF (K)
AGND
RM141
10K (J)
[RMX4A]
RM142
47 (J)
RM143
47 (J)
RM144
33 (J)
R1404
33 (F)
R1405
33 (F)
R1406
33 (F)
C1410
C1411
33pF (J)
C1412
33pF (J)
C1413
C1414
C1415
C1416
C1417
C1418
C1419
C1420
C1421
C1422
NOT MOUNT
C1423
NOT MOUNT
C1424
C1425
C1426
C1427
C1428
C1429
C1430
C1431
FL141
FL142
NOT MOUNT
FL143
NOT MOUNT
FL144
FL145
FL146
FL147
FL148
FL149
FL150
FL151
220ohm
ITU-R656 output
[C16A]
P200B
FL156
NOT MOUNT
FL152
0 (X)
M_UPRXD_0
M_UPTXD_0
UART_GND
M_UPIRQ_0
111:4B
D_JTAG_TCK
D_JTAG_TMS
D_JTAG_TRST_N
D_JTAG_TDI
D_JTAG_TDO
111:5B
B_CVBS
300:1E
VCXO-PWM
109:1D
TP42
TP40
TP41
R1419
NOT MOUNT
R1417
NOT MOUNT
R1408
4.7K (J)
R1409
4.7K (J)
NOT MOUNT
R1420
4.7K (J)
R1418
4.7K (J)
R1410
4.7K (J)
R1411
4.7K (J)
A_ASDO0
300:1C
A_ABCKO
300:1B
A_ALRCKO
300:1B
A_AOSCLKO
300:1C
C1406
10uF (K)
[OTB]
PJ142
GP1FMV31TK0F
(VCC)
(Vin)
(GND)
LED
1T
2T
R1407
47 (J)
FL154
60ohm
FL155
60ohm
TX49 internal timer interrupt
0:interrupt enabled
1:interrupt disabled
Nandflash access activation
0:No Nandflash support
1:Nandflash support

Digital Audio

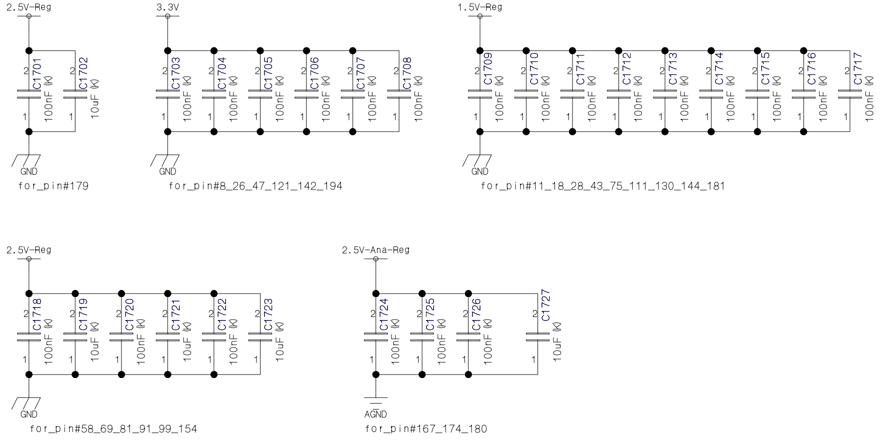
U05A EU_DIGITAL [104] AUDIO, VIDEO (PE0284)


V46A00007900
TC90403FG (BS. DRY. X
TC90403 5/6
[V-U90403]
IC100
[DDR I/F]
114:1B M_DDRDQ0 63 SDMD0
114:1B M_DDRDQ1 61 SDMD1
114:1B M_DDRDQ2 60 SDMD2
114:1B M_DDRDQ3 59 SDMD3
114:1B M_DDRDQ4 57 SDMD4
114:1B M_DDRDQ5 55 SDMD5
114:1B M_DDRDQ6 54 SDMD6
114:1B M_DDRDQ7 53 SDMD7
114:1B M_DDRDQ8 104 SDMD8
114:1B M_DDRDQ9 103 SDMD9
114:1B M_DDRDQ10 102 SDMD10
114:1B M_DDRDQ11 101 SDMD11
114:1B M_DDRDQ12 100 SDMD12
114:1B M_DDRDQ13 98 SDMD13
114:1B M_DDRDQ14 97 SDMD14
114:1B M_DDRDQ15 95 SDMD15
112:2E:115:6C M_DDRVREF 106 SDVREF
SDDQS0 64 M_DDRDQS0 113:1D
SDDQS1 94 M_DDRDQS1 113:1D
SDDM0 65 M_DDRDM0 113:1D
SDDM1 93 M_DDRDM1 113:1D
SDADD0 74 M_DDRAD0 113:1B
SDADD1 76 M_DDRAD1 113:1B
SDADD2 77 M_DDRAD2 113:1B
SDADD3 78 M_DDRAD3 113:1B
SDADD4 80 M_DDRAD4 113:1B
SDADD5 82 M_DDRAD5 113:1B
SDADD6 83 M_DDRAD6 113:1B
SDADD7 84 M_DDRAD7 113:1B
SDADD8 85 M_DDRAD8 113:1B
SDADD9 86 M_DDRAD9 113:1B
SDADD10 73 M_DDRAD10 113:1B
SDADD11 87 M_DDRAD11 113:1B
SDADD12 89 M_DDRAD12 113:1B
SDCLK 90
SDBCLK 92
C1501
5pF (C)
1
2
NOT MOUNT
M_DDRCLK0 113:1D
M_DDRCLKB0 113:1D
SDCKE 107 M_DDRCKE 113:1D
SDBA0 70 M_DDRBA0 113:1D
SDBA1 72 M_DDRBA1 113:1D
SDWE_N 66 M_DDRWE 113:1D
SDRAS_N 68 M_DDRRAS 113:1D
SDCAS_N 67 M_DDRCAS 113:1D

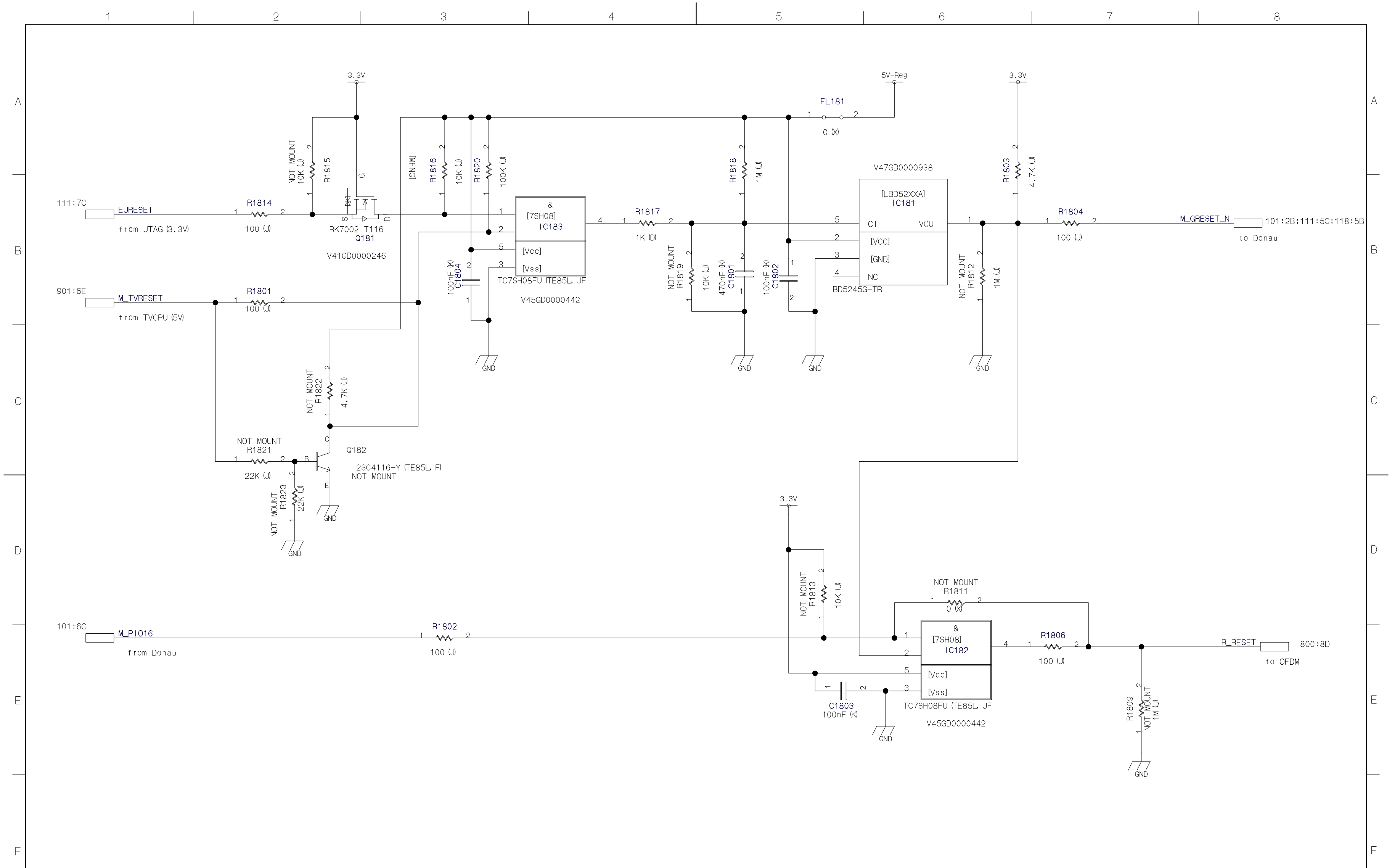
U05A EU_DIGITAL [105] DDRSDRAM I/F (PE0284)


V46A00007900
TC90403FG (BS, DRY, X
TC90403 6/6
[V-U90403]
IC100
[POWER]
2.5V-Ana-Reg
2.5V-Reg
FL161
MMZ1608S102CT
C1601
100nF (K)
C1602
10uF (K)
PLLGND
1.5V-Reg
FL162
MMZ1608S102CT
C1603
100nF (K)
C1604
10uF (K)
GND
3.3V
1.5V-Reg
2.5V-Reg
179 [DACDVD]
180 [DACAVD]
174 [DACAVD]
167 [DACAVD]
162 [PLLAVD]
164 [PLLDVD]
8 [VDDS12]
26 [VDDS12]
47 [VDDS12]
121 [VDDS12]
142 [VDDS12]
194 [VDDS12]
11 [VDDC]
18 [VDDC]
28 [VDDC]
43 [VDDC]
75 [VDDC]
111 [VDDC]
130 [VDDC]
144 [VDDC]
181 [VDDC]
58 [VDD12]
69 [VDD12]
81 [VDD12]
91 [VDD12]
99 [VDD12]
154 [VDD12]
[DACDVS] 178
[DACAVS] 176
[DACAVS] 169
[DACAVS] 165
GND
AGND
[PLLAVS] 161
[PLLDVS] 163
GND
PLLGND
[VSS12] 6
[VSS12] 15
[VSS12] 24
[VSS12] 36
[VSS12] 45
[VSS12] 56
[VSS12] 62
[VSS12] 71
[VSS12] 79
[VSS12] 88
[VSS12] 96
[VSS12] 105
[VSS12] 116
[VSS12] 126
[VSS12] 136
[VSS12] 148
[VSS12] 189
[VSS12] 200
GND

U05A EU_DIGITAL [106] Donau PWR1 (PE0284)

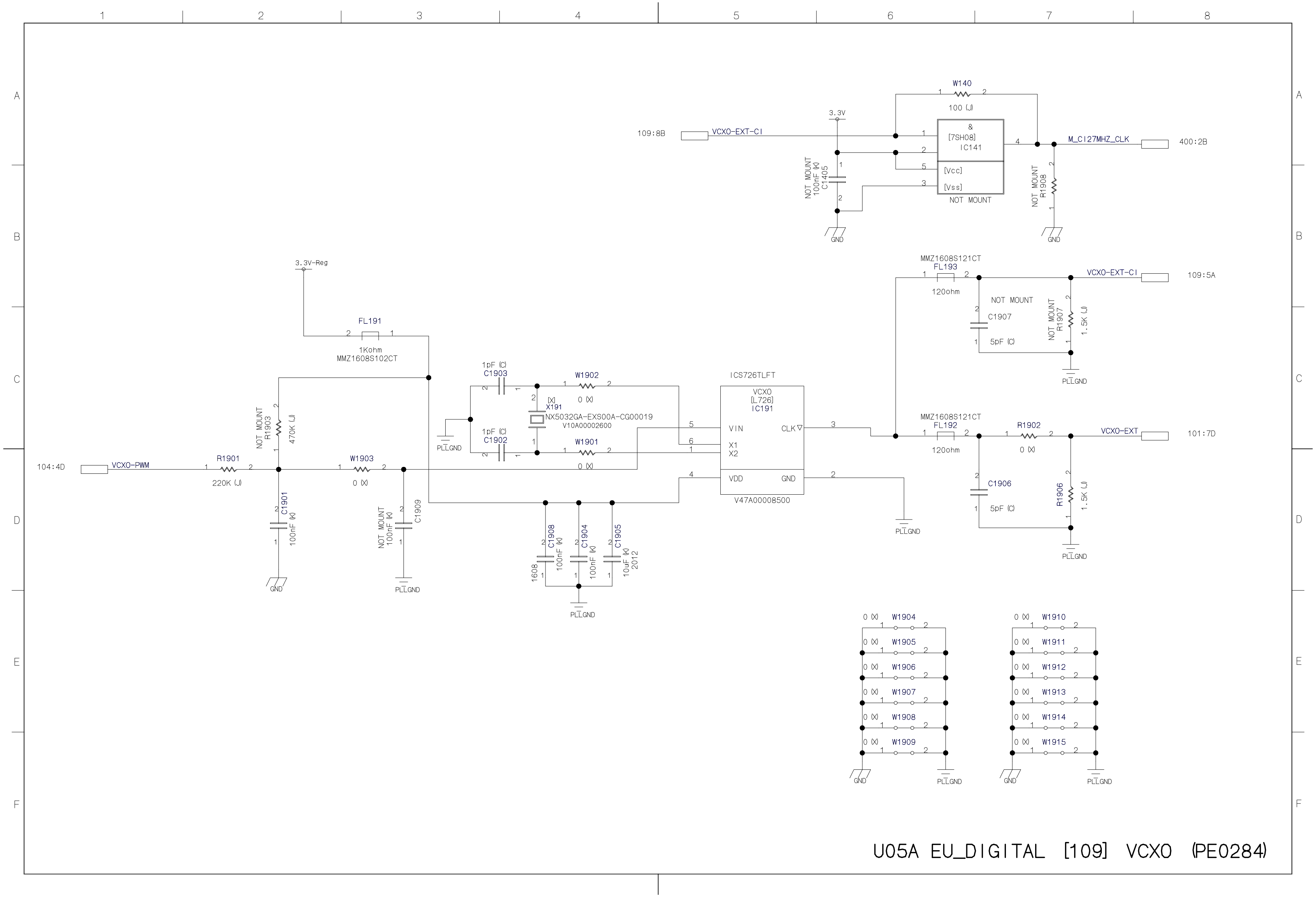

2.5V-Reg
C1701 100nF (K)
C1702 10uF (K)
GND
for_pin#179
3.3V
C1703 100nF (K)
C1704 100nF (K)
C1705 100nF (K)
C1706 100nF (K)
C1707 100nF (K)
C1708 100nF (K)
GND
for_pin#8_26_47_121_142_194
1.5V-Reg
C1709 100nF (K)
C1710 100nF (K)
C1711 100nF (K)
C1712 100nF (K)
C1713 100nF (K)
C1714 100nF (K)
C1715 100nF (K)
C1716 100nF (K)
C1717 100nF (K)
GND
for_pin#11_18_28_43_75_111_130_144_181
2.5V-Reg
C1718 100nF (K)
C1719 10uF (K)
C1720 100nF (K)
C1721 10uF (K)
C1722 100nF (K)
C1723 10uF (K)
GND
for_pin#58_69_81_91_99_154
2.5V-Ana-Reg
C1724 100nF (K)
C1725 100nF (K)
C1726 100nF (K)
C1727 10uF (K)
AGND
for_pin#167_174_180

U05A EU_DIGITAL [107] Donau PATHCON (PE0284)

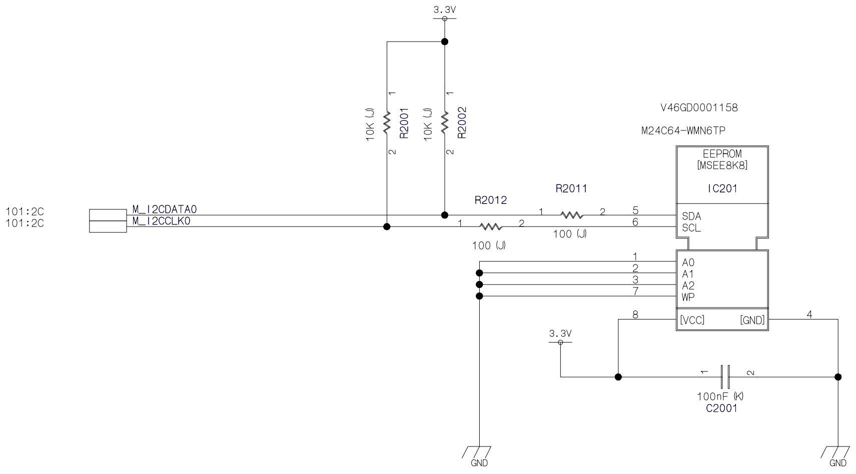


1
2
3
4
5
6
7
8
A
B
C
D
E
F
3.3V
5V-Reg
3.3V
FL181
0 (X)
111:7C
EJRESET
from JTAG (3.3V)
R1814
100 (J)
NOT MOUNT
10K (J)
R1815
RK7002 T116
Q181
V41GD0000246
[MFNG]
R1816
10K (J)
R1820
100K (J)
&
[7SH08]
IC183
[Vcc]
[Vss]
TC7SH08FU (TE85L, JF
V45GD0000442
100nF (K)
C1804
GND
R1817
1K (D)
R1818
1M (J)
NOT MOUNT
R1819
10K (J)
470nF (K)
C1801
100nF (K)
C1802
V47GD0000938
[LBD52XXA]
IC181
CT
VOUT
[VCC]
[GND]
NC
BD5245G-TR
R1803
4.7K (J)
NOT MOUNT
R1812
1M (J)
R1804
100 (J)
M_GRESET_N
101:2B:111:5C:118:5B
to Donau
901:6E
M_TVRESET
from TVCPU (5V)
R1801
100 (J)
NOT MOUNT
R1822
4.7K (J)
NOT MOUNT
R1821
22K (J)
Q182
2SC4116-Y (TE85L, F)
NOT MOUNT
NOT MOUNT
R1823
22K (J)
101:6C
M_PIO16
from Donau
R1802
100 (J)
3.3V
NOT MOUNT
R1813
10K (J)
NOT MOUNT
R1811
0 (X)
&
[7SH08]
IC182
[Vcc]
[Vss]
TC7SH08FU (TE85L, JF
V45GD0000442
C1803
100nF (K)
R1806
100 (J)
R_RESET
800:8D
to OFDM
R1809
NOT MOUNT
1M (J)

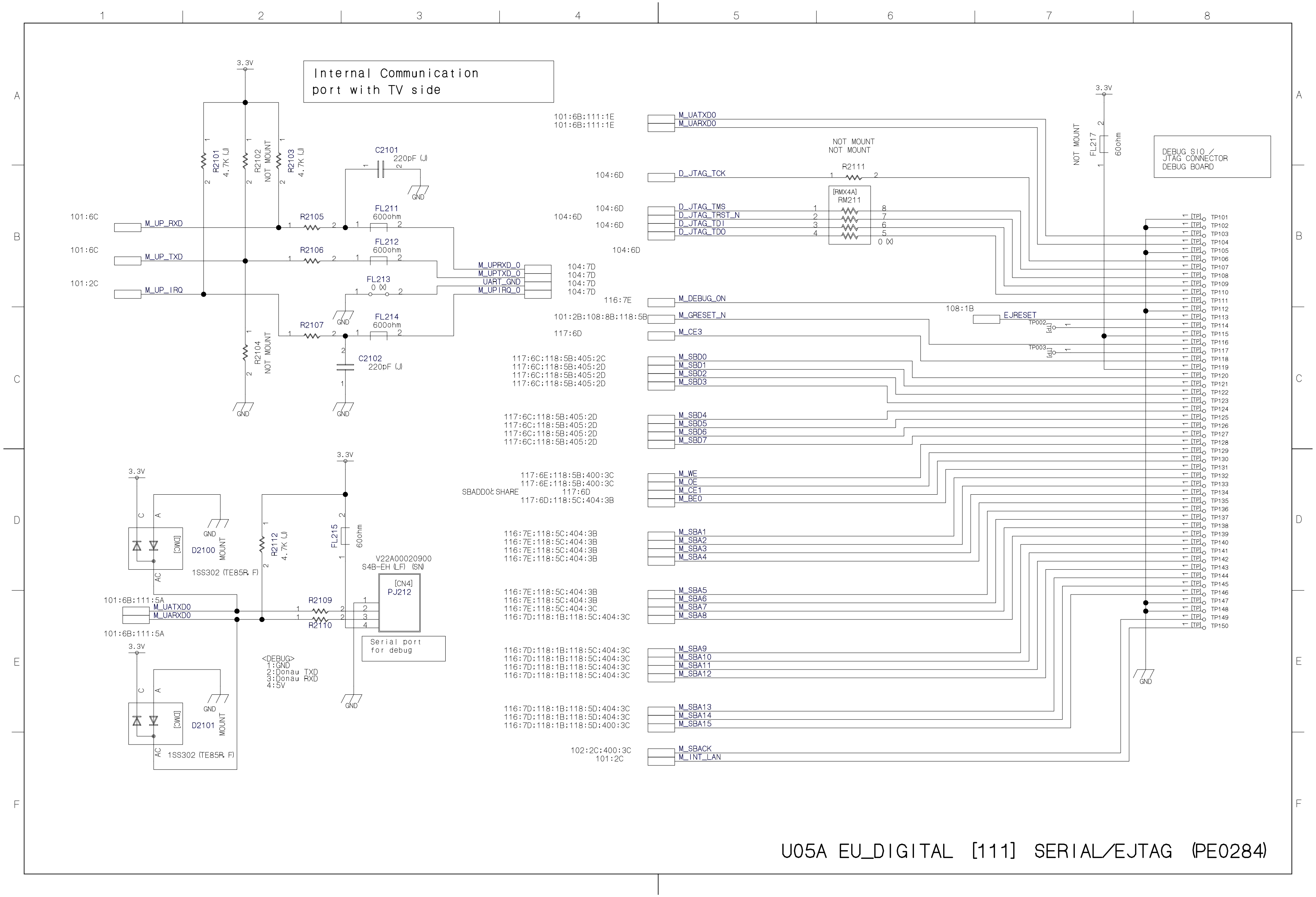
U05A EU_DIGITAL [108] RST/CLK (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
W140
100 (J)
3.3V
109:8B
VCXO-EXT-CI
&
[7SH08]
IC141
[Vcc]
[Vss]
NOT MOUNT
NOT MOUNT
100nF (K)
C1405
M_CI27MHZ_CLK
400:2B
NOT MOUNT
R1908
GND
GND
MMZ1608S121CT
FL193
120ohm
VCXO-EXT-CI
109:5A
NOT MOUNT
C1907
5pF (C)
NOT MOUNT
R1907
1.5K (J)
PLLGND
3.3V-Reg
FL191
1Kohm
MMZ1608S102CT
1pF (C)
C1903
W1902
0 (X)
[X]
X191
NX5032GA-EXS00A-CG00019
V10A00002600
1pF (C)
C1902
W1901
0 (X)
PLLGND
ICS726TLFT
VCXO
[L726]
IC191
VIN
X1
X2
CLK
VDD
GND
V47A00008500
MMZ1608S121CT
FL192
120ohm
R1902
0 (X)
VCXO-EXT
101:7D
C1906
5pF (C)
R1906
1.5K (J)
PLLGND
NOT MOUNT
R1903
470K (J)
104:4D
VCXO-PWM
R1901
220K (J)
W1903
0 (X)
C1901
100nF (K)
GND
NOT MOUNT
100nF (K)
C1909
PLLGND
C1908
100nF (K)
1608
C1904
100nF (K)
C1905
10uF (K)
2012
PLLGND
PLLGND
0 (X) W1904
0 (X) W1905
0 (X) W1906
0 (X) W1907
0 (X) W1908
0 (X) W1909
GND
PLLGND
0 (X) W1910
0 (X) W1911
0 (X) W1912
0 (X) W1913
0 (X) W1914
0 (X) W1915
GND
PLLGND

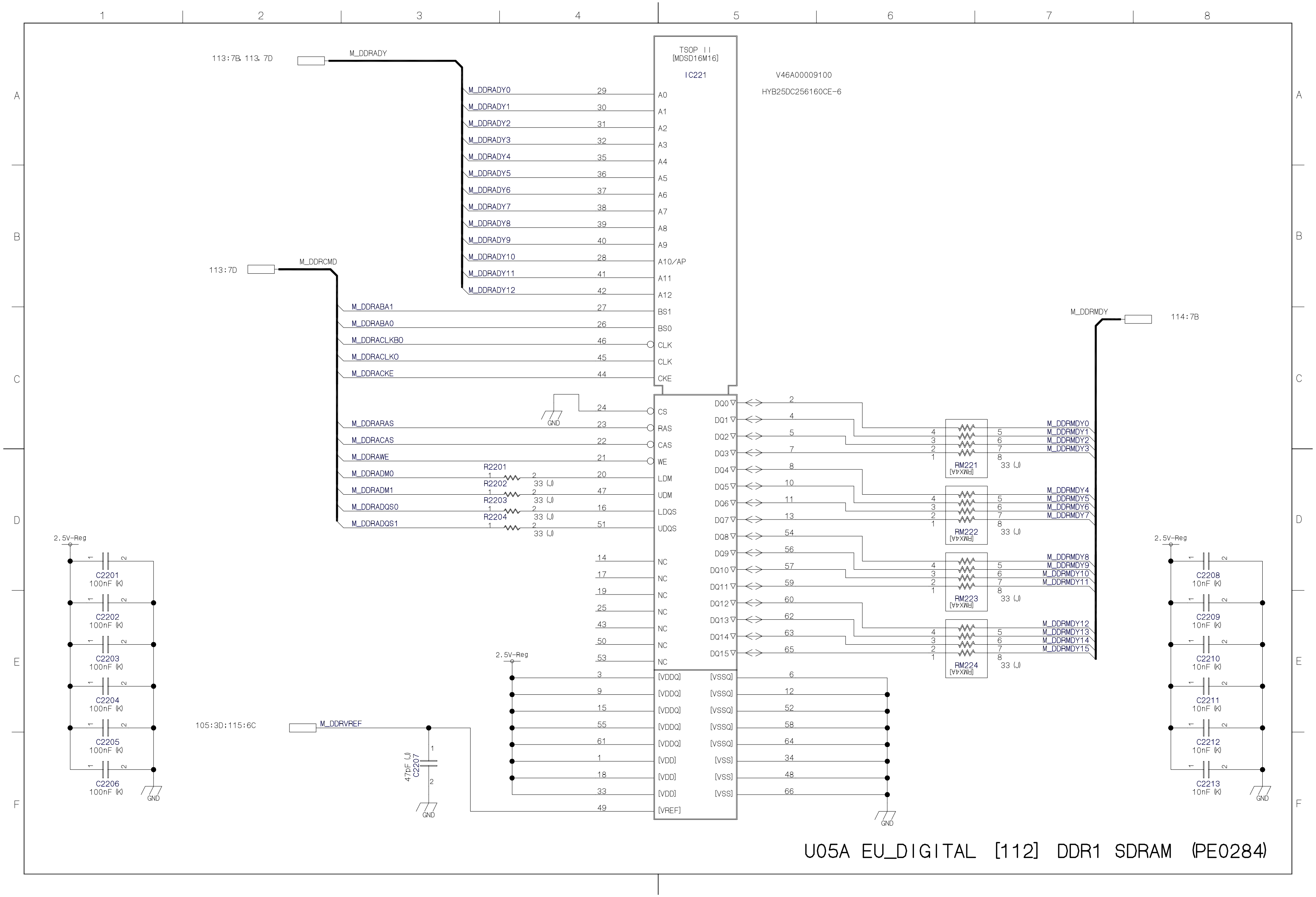
U05A EU_DIGITAL [109] VCXO (PE0284)


3.3V
V46GD0001158
M24C64-WMN6TP
EEPROM
[MSEE8K8]
IC201
10K (J)
R2001
10K (J)
R2002
R2012
R2011
100 (J)
100 (J)
101:2C
101:2C
M_I2CDATA0
M_I2CCLK0
SDA
SCL
A0
A1
A2
WP
[VCC]
[GND]
3.3V
100nF (K)
C2001
GND
GND

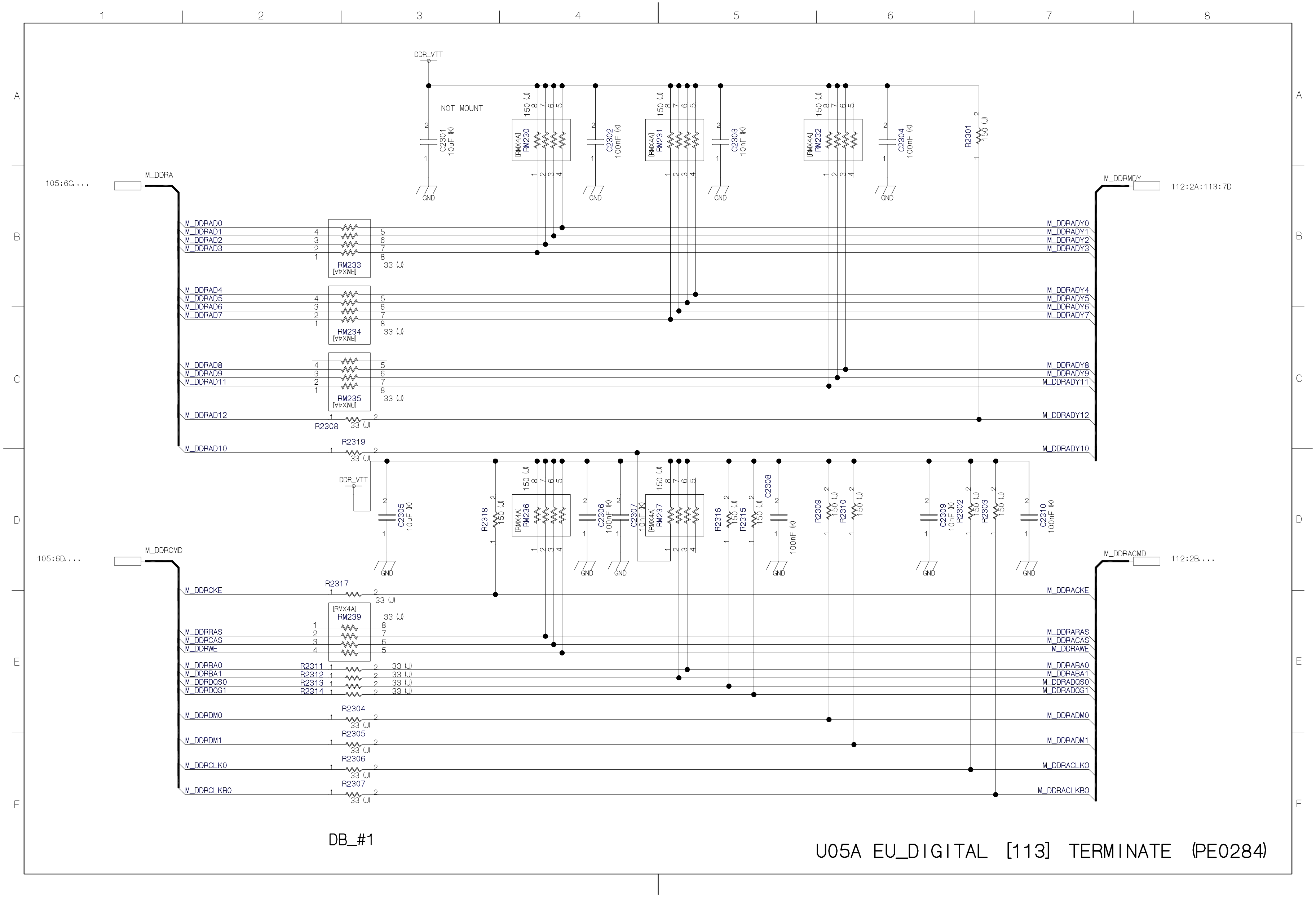
U05A EU_DIGITAL [110] E2PROM (PE0284)


Internal Communication port with TV side
3.3V
R2101 4.7K (J)
R2102 NOT MOUNT
R2103 4.7K (J)
C2101 220pF (J)
101:6C M_UP_RXD
101:6C M_UP_TXD
101:2C M_UP_IRQ
R2105
R2106
R2107
FL211 600ohm
FL212 600ohm
FL213 0 (X)
FL214 600ohm
R2104 NOT MOUNT
C2102 220pF (J)
GND
M_UPRXD_0
M_UPTXD_0
UART_GND
M_UPIRQ_0
104:7D
101:6B:111:1E M_UATXD0
101:6B:111:1E M_UARXD0
104:6D D_JTAG_TCK
NOT MOUNT
R2111
[RMX4A] RM211
104:6D D_JTAG_TMS
104:6D D_JTAG_TRST_N
104:6D D_JTAG_TDI
104:6D D_JTAG_TDO
0 (X)
116:7E M_DEBUG_ON
101:2B:108:8B:118:5B M_GRESET_N
117:6D M_CE3
108:1B EJRESET
TP002
TP003
117:6C:118:5B:405:2C M_SBD0
117:6C:118:5B:405:2D M_SBD1
117:6C:118:5B:405:2D M_SBD2
117:6C:118:5B:405:2D M_SBD3
117:6C:118:5B:405:2D M_SBD4
117:6C:118:5B:405:2D M_SBD5
117:6C:118:5B:405:2D M_SBD6
117:6C:118:5B:405:2D M_SBD7
117:6E:118:5B:400:3C M_WE
117:6E:118:5B:400:3C M_OE
SBADD0と SHARE 117:6D M_CE1
117:6D:118:5C:404:3B M_BE0
116:7E:118:5C:404:3B M_SBA1
116:7E:118:5C:404:3B M_SBA2
116:7E:118:5C:404:3B M_SBA3
116:7E:118:5C:404:3B M_SBA4
116:7E:118:5C:404:3B M_SBA5
116:7E:118:5C:404:3B M_SBA6
116:7E:118:5C:404:3C M_SBA7
116:7D:118:1B:118:5C:404:3C M_SBA8
116:7D:118:1B:118:5C:404:3C M_SBA9
116:7D:118:1B:118:5C:404:3C M_SBA10
116:7D:118:1B:118:5C:404:3C M_SBA11
116:7D:118:1B:118:5C:404:3C M_SBA12
116:7D:118:1B:118:5D:404:3C M_SBA13
116:7D:118:1B:118:5D:404:3C M_SBA14
116:7D:118:1B:118:5D:400:3C M_SBA15
102:2C:400:3C M_SBACK
101:2C M_INT_LAN
NOT MOUNT FL217 600hm
DEBUG SIO / JTAG CONNECTOR DEBUG BOARD
TP101 – TP150
D2100 MOUNT 1SS302 (TE85R, F)
D2101 MOUNT 1SS302 (TE85R, F)
101:6B:111:5A M_UATXD0
101:6B:111:5A M_UARXD0
R2112 4.7K (J)
FL215 600hm
R2109
R2110
V22A00020900 S4B-EH (LF) (SN)
[CN4] PJ212
Serial port for debug
<DEBUG>
1:GND
2:Donau TXD
3:Donau RXD
4:5V
1 2 3 4 5 6 7 8
A B C D E F

U05A EU_DIGITAL [111] SERIAL/EJTAG (PE0284)

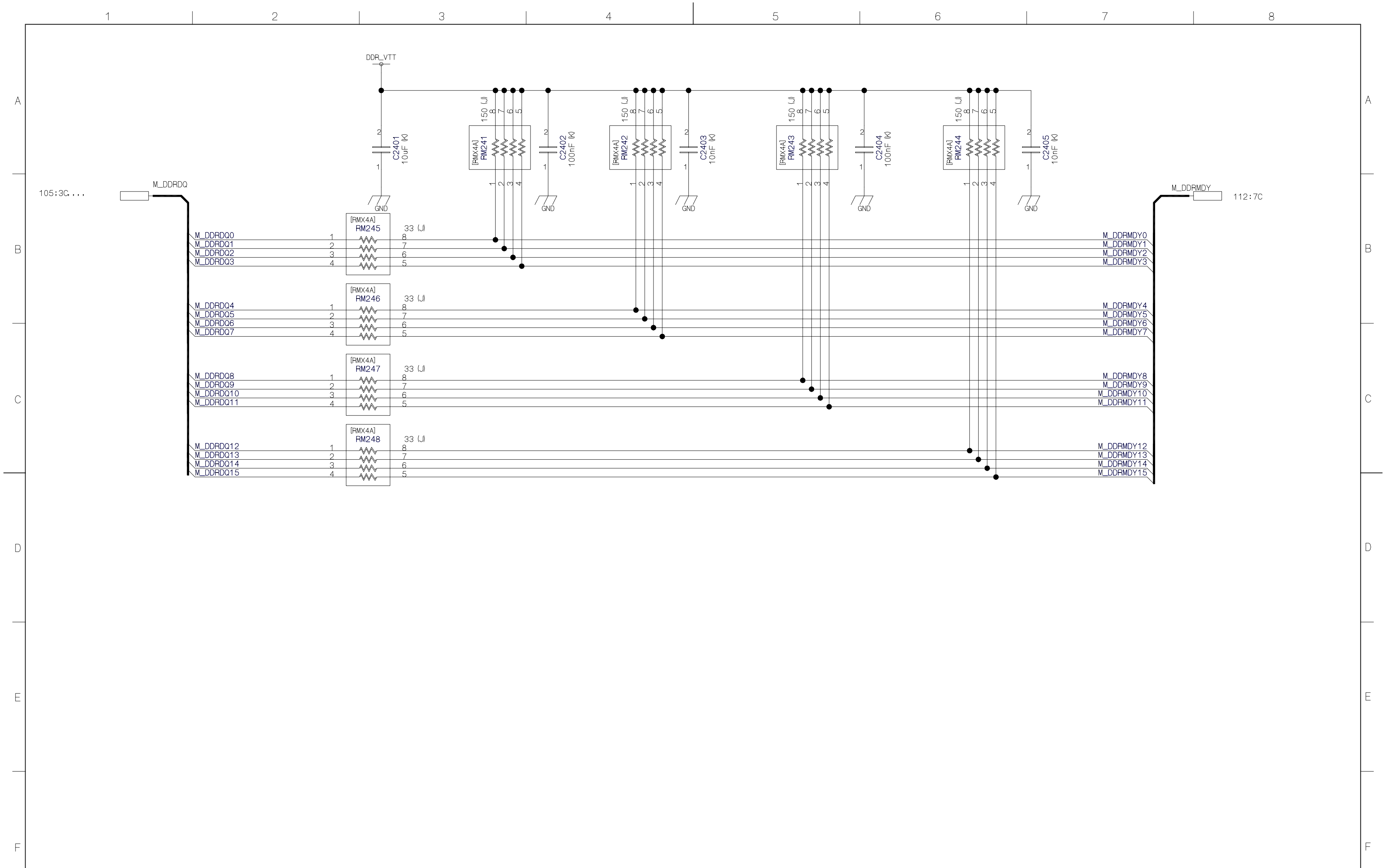

1
2
3
4
5
6
7
8
A
B
C
D
E
F
113:7B, 113:7D
M_DDRADY
TSOP II
[MDSD16M16]
IC221
V46A00009100
HYB25DC256160CE-6
M_DDRADY0 29 A0
M_DDRADY1 30 A1
M_DDRADY2 31 A2
M_DDRADY3 32 A3
M_DDRADY4 35 A4
M_DDRADY5 36 A5
M_DDRADY6 37 A6
M_DDRADY7 38 A7
M_DDRADY8 39 A8
M_DDRADY9 40 A9
M_DDRADY10 28 A10/AP
M_DDRADY11 41 A11
M_DDRADY12 42 A12
113:7D
M_DDRCMD
M_DDRABA1 27 BS1
M_DDRABA0 26 BS0
M_DDRACLKB0 46 CLK
M_DDRACLK0 45 CLK
M_DDRACKE 44 CKE
GND 24 CS
M_DDRARAS 23 RAS
M_DDRACAS 22 CAS
M_DDRAWE 21 WE
R2201 M_DDRADM0 20 LDM
R2202 M_DDRADM1 47 UDM
R2203 M_DDRADQS0 16 LDQS
R2204 M_DDRADQS1 51 UDQS
33 (J)
14 NC
17 NC
19 NC
25 NC
43 NC
50 NC
53 NC
DQ0 2
DQ1 4
DQ2 5
DQ3 7
DQ4 8
DQ5 10
DQ6 11
DQ7 13
DQ8 54
DQ9 56
DQ10 57
DQ11 59
DQ12 60
DQ13 62
DQ14 63
DQ15 65
M_DDRMDY
114:7B
RM221 [RMX4A] 33 (J)
RM222 [RMX4A] 33 (J)
RM223 [RMX4A] 33 (J)
RM224 [RMX4A] 33 (J)
M_DDRMDY0
M_DDRMDY1
M_DDRMDY2
M_DDRMDY3
M_DDRMDY4
M_DDRMDY5
M_DDRMDY6
M_DDRMDY7
M_DDRMDY8
M_DDRMDY9
M_DDRMDY10
M_DDRMDY11
M_DDRMDY12
M_DDRMDY13
M_DDRMDY14
M_DDRMDY15
2.5V-Reg
3 [VDDQ]
9 [VDDQ]
15 [VDDQ]
55 [VDDQ]
61 [VDDQ]
1 [VDD]
18 [VDD]
33 [VDD]
49 [VREF]
[VSSQ] 6
[VSSQ] 12
[VSSQ] 52
[VSSQ] 58
[VSSQ] 64
[VSS] 34
[VSS] 48
[VSS] 66
GND
105:3D:115:6C
M_DDRVREF
C2207 47pF (J)
2.5V-Reg
C2201 100nF (K)
C2202 100nF (K)
C2203 100nF (K)
C2204 100nF (K)
C2205 100nF (K)
C2206 100nF (K)
GND
2.5V-Reg
C2208 10nF (K)
C2209 10nF (K)
C2210 10nF (K)
C2211 10nF (K)
C2212 10nF (K)
C2213 10nF (K)
GND

U05A EU_DIGITAL [112] DDR1 SDRAM (PE0284)

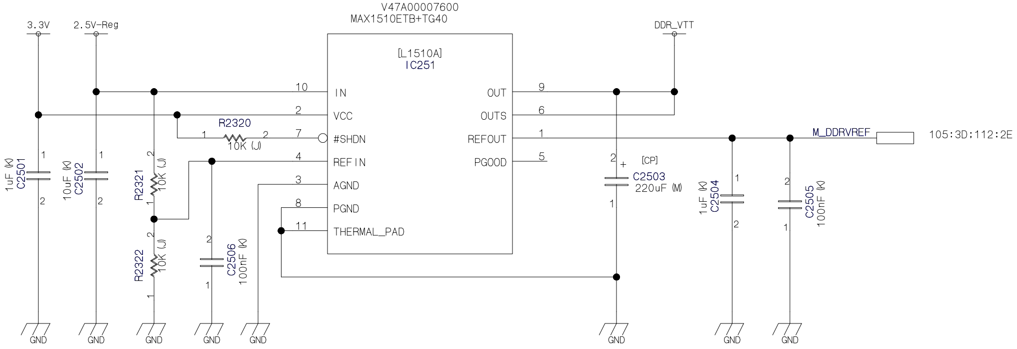

DDR_VTT
NOT MOUNT
C2301 10uF (K)
RM230 [RMX4A] 150 (J)
C2302 100nF (K)
RM231 [RMX4A] 150 (J)
C2303 10nF (K)
RM232 [RMX4A] 150 (J)
C2304 100nF (K)
R2301 150 (J)
GND
105:6C...
M_DDRA
M_DDRMDY
112:2A:113:7D
M_DDRAD0
M_DDRAD1
M_DDRAD2
M_DDRAD3
RM233 [RMX4A] 33 (J)
M_DDRAD4
M_DDRAD5
M_DDRAD6
M_DDRAD7
RM234 [RMX4A] 33 (J)
M_DDRAD8
M_DDRAD9
M_DDRAD11
RM235 [RMX4A] 33 (J)
M_DDRAD12
R2308 33 (J)
M_DDRAD10
R2319 33 (J)
M_DDRADY0
M_DDRADY1
M_DDRADY2
M_DDRADY3
M_DDRADY4
M_DDRADY5
M_DDRADY6
M_DDRADY7
M_DDRADY8
M_DDRADY9
M_DDRADY11
M_DDRADY12
M_DDRADY10
C2305 10uF (K)
R2318 150 (J)
RM236 [RMX4A] 150 (J)
C2306 100nF (K)
C2307 10nF (K)
RM237 [RMX4A] 150 (J)
R2316 150 (J)
R2315 150 (J)
C2308 100nF (K)
R2309 150 (J)
R2310 150 (J)
C2309 10nF (K)
R2302 150 (J)
R2303 150 (J)
C2310 100nF (K)
105:6D...
M_DDRCMD
M_DDRACMD
112:2B...
M_DDRCKE
R2317 33 (J)
RM239 [RMX4A] 33 (J)
M_DDRRAS
M_DDRCAS
M_DDRWE
M_DDRBA0
M_DDRBA1
M_DDRDQS0
M_DDRDQS1
R2311 33 (J)
R2312 33 (J)
R2313 33 (J)
R2314 33 (J)
M_DDRDM0
R2304 33 (J)
M_DDRDM1
R2305 33 (J)
M_DDRCLK0
R2306 33 (J)
M_DDRCLKB0
R2307 33 (J)
M_DDRACKE
M_DDRARAS
M_DDRACAS
M_DDRAWE
M_DDRABA0
M_DDRABA1
M_DDRADQS0
M_DDRADQS1
M_DDRADM0
M_DDRADM1
M_DDRACLK0
M_DDRACLKB0
1 2 3 4 5 6 7 8
A B C D E F

DB_#1

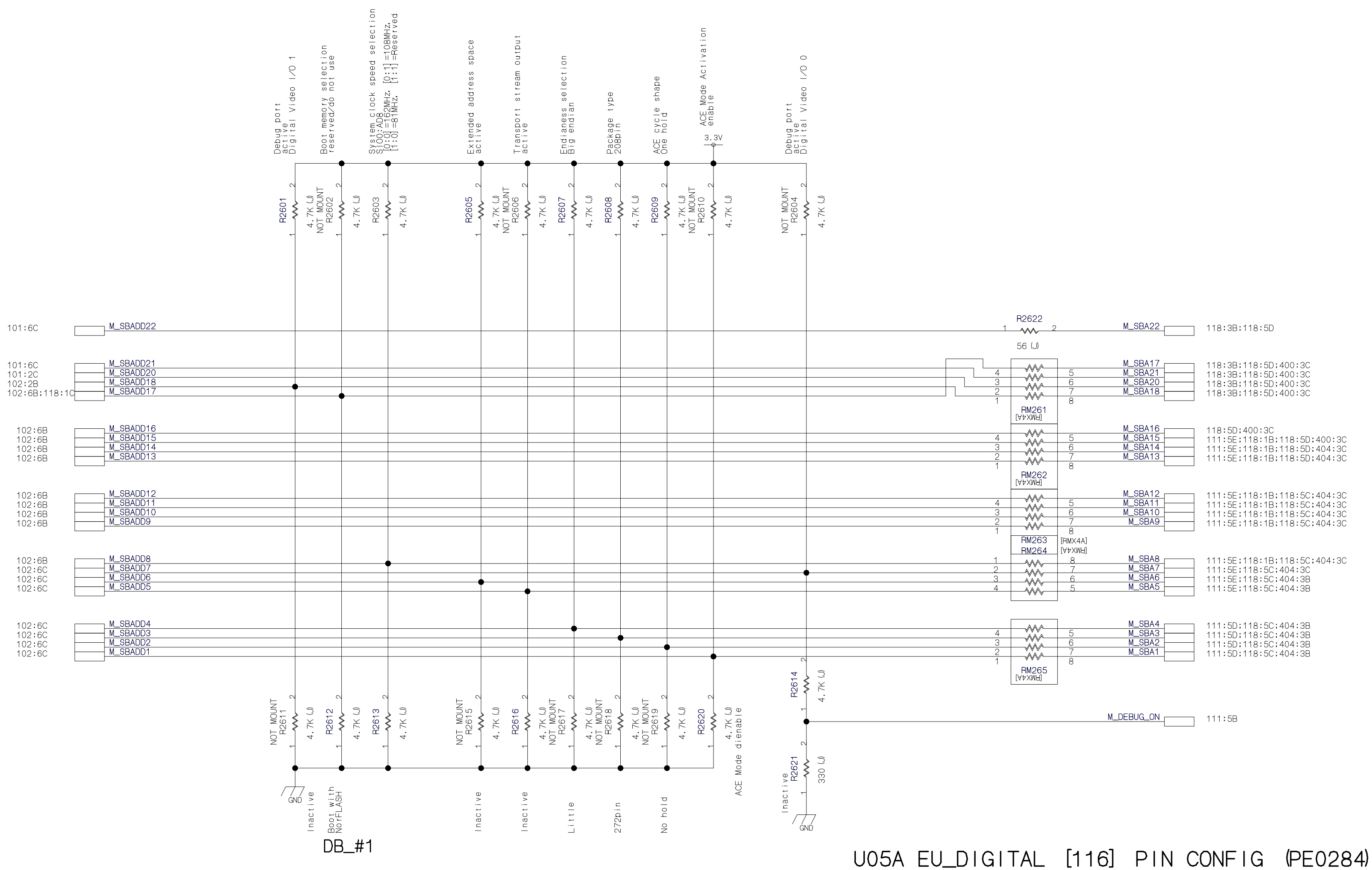
U05A EU_DIGITAL [113] TERMINATE (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
DDR_VTT
C2401
10uF (K)
C2402
100nF (K)
C2403
10nF (K)
C2404
100nF (K)
C2405
10nF (K)
GND
[RMX4A]
RM241
RM242
RM243
RM244
150 (J)
RM245
RM246
RM247
RM248
33 (J)
105:3C...
M_DDRDQ
M_DDRDQ0
M_DDRDQ1
M_DDRDQ2
M_DDRDQ3
M_DDRDQ4
M_DDRDQ5
M_DDRDQ6
M_DDRDQ7
M_DDRDQ8
M_DDRDQ9
M_DDRDQ10
M_DDRDQ11
M_DDRDQ12
M_DDRDQ13
M_DDRDQ14
M_DDRDQ15
M_DDRMDY
112:7C
M_DDRMDY0
M_DDRMDY1
M_DDRMDY2
M_DDRMDY3
M_DDRMDY4
M_DDRMDY5
M_DDRMDY6
M_DDRMDY7
M_DDRMDY8
M_DDRMDY9
M_DDRMDY10
M_DDRMDY11
M_DDRMDY12
M_DDRMDY13
M_DDRMDY14
M_DDRMDY15

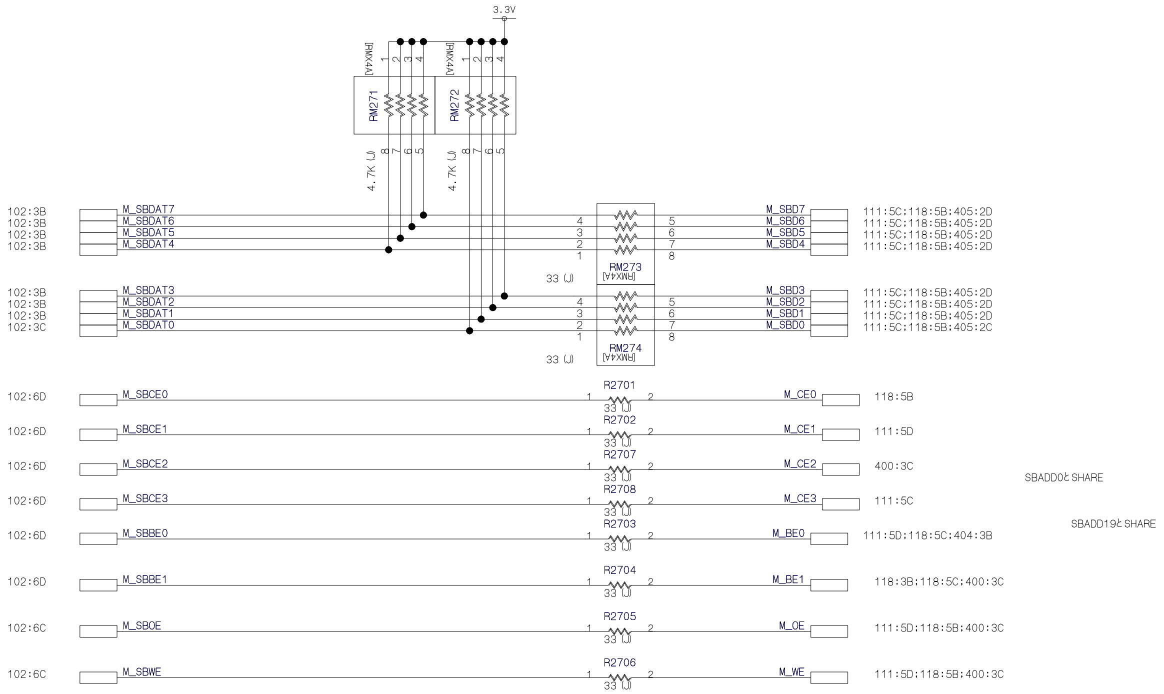
U05A EU_DIGITAL [114] TERMINATE (PE0284)


V47A00007600
MAX1510ETB+TG40
[L1510A]
IC251
3.3V
2.5V-Reg
DDR_VTT
10
IN
2
VCC
7
#SHDN
4
REFIN
3
AGND
8
PGND
11
THERMAL_PAD
9
OUT
6
OUTS
1
REFOUT
5
PGOOD
R2320
10K (J)
1
2
1uF (K)
C2501
10uF (K)
C2502
R2321
10K (J)
R2322
10K (J)
C2506
100nF (K)
C2503
220uF (M)
[CP]
+
1uF (K)
C2504
C2505
100nF (K)
M_DDRVREF
105:3D;112:2E
GND

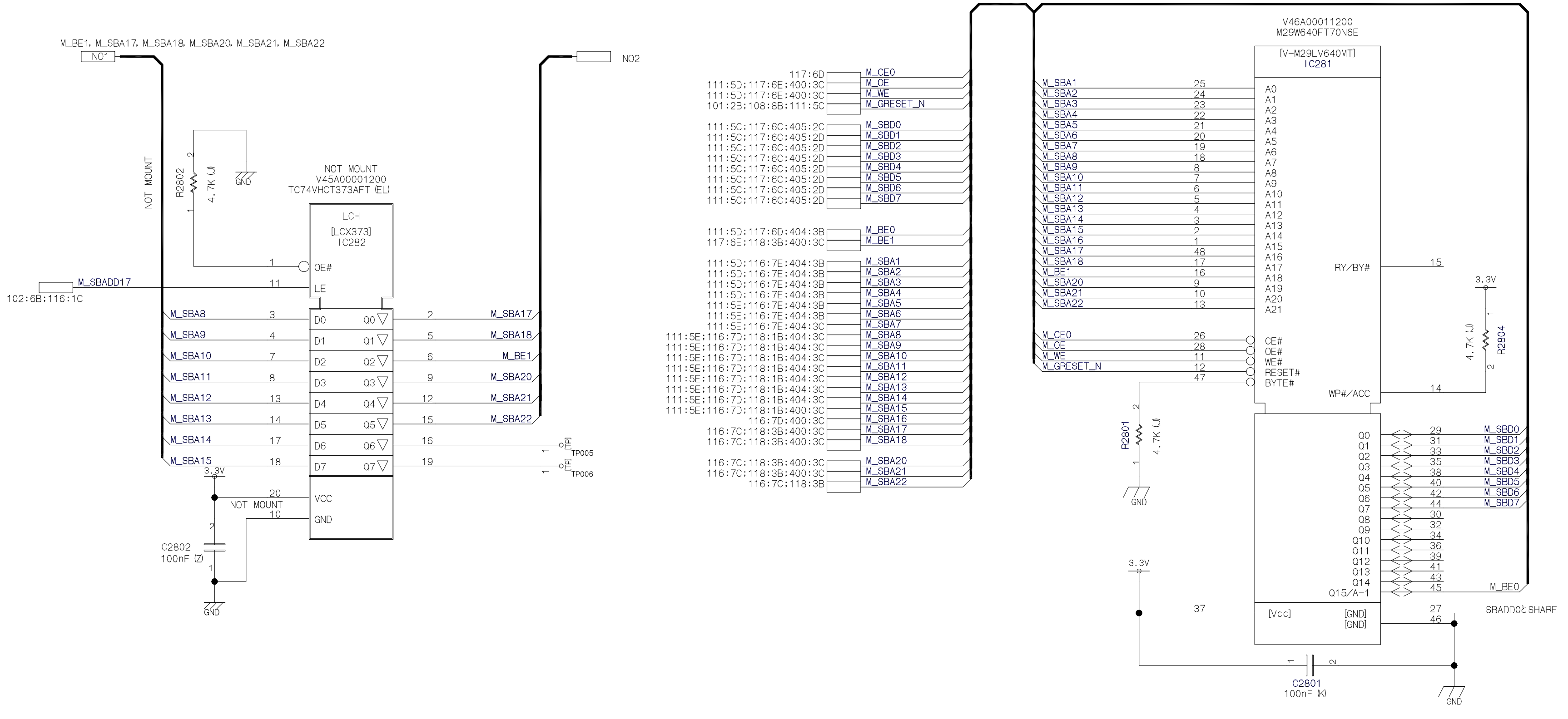
U05A EU_DIGITAL [115] TERMINATE (PE0284)


Debug port
active
Digital Video I/O 1
Boot memory selection
reserved/do not use
System clock speed selection
S[00:A08]
[0:0]=162MHz, [0:1]=108MHz,
[1:0]=81MHz, [1:1]=Reserved
Extended address space
active
Transport stream output
active
Endianess selection
Big endian
Package type
208pin
ACE cycle shape
One hold
ACE Mode Activation
enable
3.3V
Debug port
active
Digital Video I/O 0
R2601
4.7K (J)
NOT MOUNT
R2602
4.7K (J)
R2603
4.7K (J)
R2605
4.7K (J)
NOT MOUNT
R2606
4.7K (J)
R2607
4.7K (J)
R2608
4.7K (J)
R2609
4.7K (J)
NOT MOUNT
R2610
4.7K (J)
NOT MOUNT
R2604
4.7K (J)
101:6C
M_SBADD22
R2622
56 (J)
M_SBA22
118:3B:118:5D
101:6C
101:2C
102:2B
102:6B:118:1C
M_SBADD21
M_SBADD20
M_SBADD18
M_SBADD17
M_SBA17
M_SBA21
M_SBA20
M_SBA18
RM261
[RMX4A]
118:3B:118:5D:400:3C
118:3B:118:5D:400:3C
118:3B:118:5D:400:3C
118:3B:118:5D:400:3C
102:6B
102:6B
102:6B
102:6B
M_SBADD16
M_SBADD15
M_SBADD14
M_SBADD13
M_SBA16
M_SBA15
M_SBA14
M_SBA13
RM262
[RMX4A]
118:5D:400:3C
111:5E:118:1B:118:5D:400:3C
111:5E:118:1B:118:5D:404:3C
111:5E:118:1B:118:5D:404:3C
102:6B
102:6B
102:6B
102:6B
M_SBADD12
M_SBADD11
M_SBADD10
M_SBADD9
M_SBA12
M_SBA11
M_SBA10
M_SBA9
RM263
[RMX4A]
RM264
[RMX4A]
111:5E:118:1B:118:5C:404:3C
111:5E:118:1B:118:5C:404:3C
111:5E:118:1B:118:5C:404:3C
111:5E:118:1B:118:5C:404:3C
102:6B
102:6C
102:6C
102:6C
M_SBADD8
M_SBADD7
M_SBADD6
M_SBADD5
M_SBA8
M_SBA7
M_SBA6
M_SBA5
111:5E:118:1B:118:5C:404:3C
111:5E:118:5C:404:3B
111:5E:118:5C:404:3B
111:5E:118:5C:404:3B
102:6C
102:6C
102:6C
102:6C
M_SBADD4
M_SBADD3
M_SBADD2
M_SBADD1
M_SBA4
M_SBA3
M_SBA2
M_SBA1
RM265
[RMX4A]
111:5D:118:5C:404:3B
111:5D:118:5C:404:3B
111:5D:118:5C:404:3B
111:5D:118:5C:404:3B
R2614
4.7K (J)
M_DEBUG_ON
111:5B
R2621
330 (J)
NOT MOUNT
R2611
4.7K (J)
R2612
4.7K (J)
R2613
4.7K (J)
NOT MOUNT
R2615
4.7K (J)
R2616
4.7K (J)
NOT MOUNT
R2617
4.7K (J)
NOT MOUNT
R2618
4.7K (J)
NOT MOUNT
R2619
4.7K (J)
R2620
4.7K (J)
GND
Inactive
Boot with
NorFLASH
Inactive
Inactive
Little
272pin
No hold
ACE Mode dienable
Inactive
GND
DB_#1

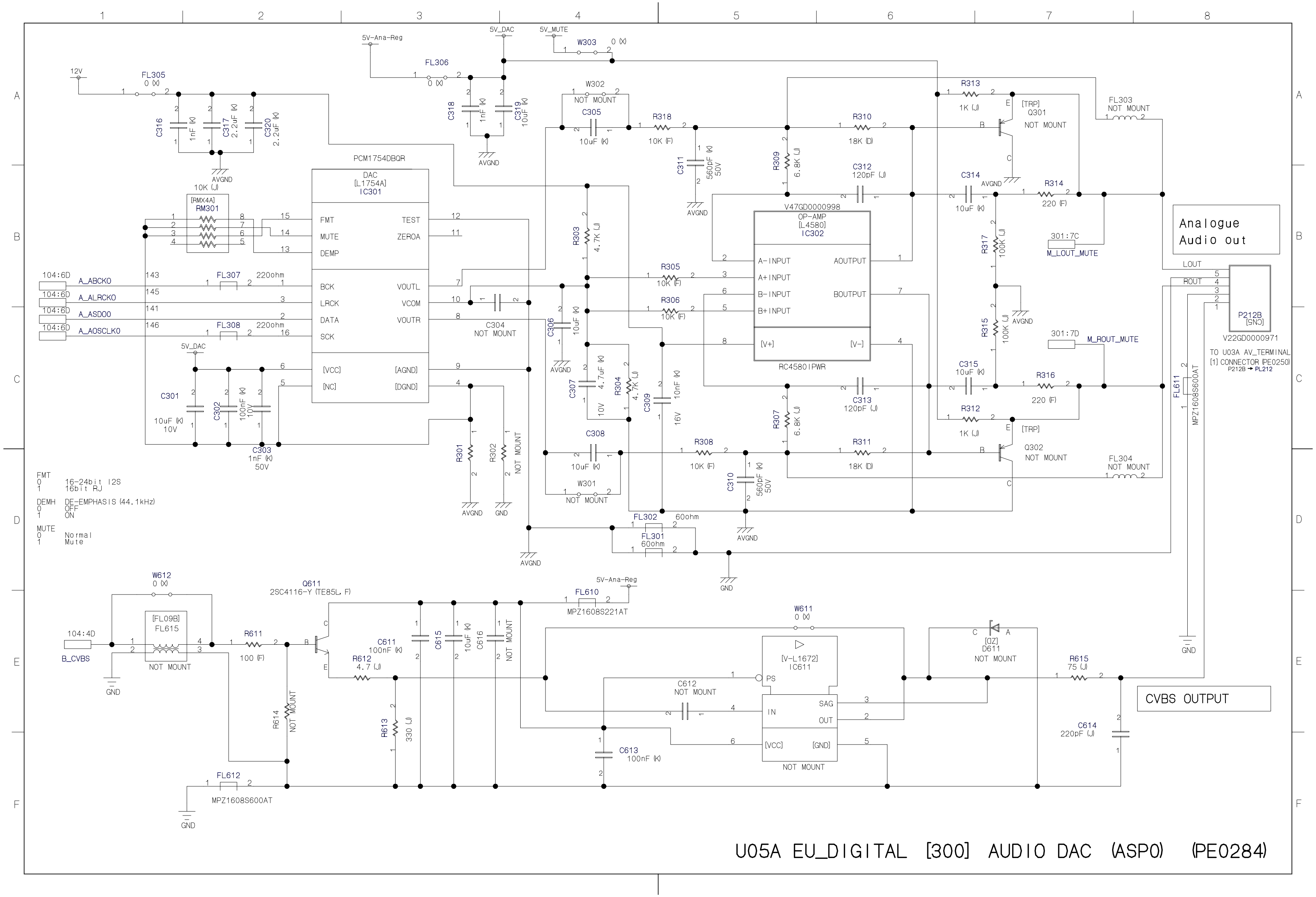
U05A EU_DIGITAL [116] PIN CONFIG (PE0284)


3.3V
[RMX4A]
RM271
4.7K (J)
[RMX4A]
RM272
4.7K (J)
1
2
3
4
8
7
6
5
102:3B
M_SBDAT7
102:3B
M_SBDAT6
102:3B
M_SBDAT5
102:3B
M_SBDAT4
RM273
[RMX4A]
33 (J)
M_SBD7
111:5C;118:5B;405:2D
M_SBD6
111:5C;118:5B;405:2D
M_SBD5
111:5C;118:5B;405:2D
M_SBD4
111:5C;118:5B;405:2D
102:3B
M_SBDAT3
102:3B
M_SBDAT2
102:3B
M_SBDAT1
102:3C
M_SBDAT0
RM274
[RMX4A]
33 (J)
M_SBD3
111:5C;118:5B;405:2D
M_SBD2
111:5C;118:5B;405:2D
M_SBD1
111:5C;118:5B;405:2D
M_SBD0
111:5C;118:5B;405:2C
102:6D
M_SBCE0
R2701
33 (J)
M_CE0
118:5B
102:6D
M_SBCE1
R2702
33 (J)
M_CE1
111:5D
102:6D
M_SBCE2
R2707
33 (J)
M_CE2
400:3C
SBADD0と SHARE
102:6D
M_SBCE3
R2708
33 (J)
M_CE3
111:5C
SBADD19と SHARE
102:6D
M_SBBE0
R2703
33 (J)
M_BE0
111:5D;118:5C;404:3B
102:6D
M_SBBE1
R2704
33 (J)
M_BE1
118:3B;118:5C;400:3C
102:6C
M_SBOE
R2705
33 (J)
M_OE
111:5D;118:5B;400:3C
102:6C
M_SBWE
R2706
33 (J)
M_WE
111:5D;118:5B;400:3C

U05A EU_DIGITAL [117] SBD REGISTER (PE0284)


M_BE1, M_SBA17, M_SBA18, M_SBA20, M_SBA21, M_SBA22
NO1
NO2
NOT MOUNT
R2802
4.7K (J)
GND
NOT MOUNT
V45A00001200
TC74VHCT373AFT (EL)
LCH
[LCX373]
IC282
OE#
LE
M_SBADD17
102:6B;116:1C
M_SBA8
M_SBA9
M_SBA10
M_SBA11
M_SBA12
M_SBA13
M_SBA14
M_SBA15
D0
D1
D2
D3
D4
D5
D6
D7
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
M_SBA17
M_SBA18
M_BE1
M_SBA20
M_SBA21
M_SBA22
TP005
TP006
[TP]
3.3V
VCC
GND
NOT MOUNT
C2802
100nF (Z)
GND
117:6D
111:5D;117:6E;400:3C
111:5D;117:6E;400:3C
101:2B;108:8B;111:5C
M_CE0
M_OE
M_WE
M_GRESET_N
111:5C;117:6C;405:2C
111:5C;117:6C;405:2D
111:5C;117:6C;405:2D
111:5C;117:6C;405:2D
111:5C;117:6C;405:2D
111:5C;117:6C;405:2D
111:5C;117:6C;405:2D
111:5C;117:6C;405:2D
M_SBD0
M_SBD1
M_SBD2
M_SBD3
M_SBD4
M_SBD5
M_SBD6
M_SBD7
111:5D;117:6D;404:3B
117:6E;118:3B;400:3C
M_BE0
M_BE1
111:5D;116:7E;404:3B
111:5D;116:7E;404:3B
111:5D;116:7E;404:3B
111:5D;116:7E;404:3B
111:5E;116:7E;404:3B
111:5E;116:7E;404:3B
111:5E;116:7E;404:3C
111:5E;116:7D;118:1B;404:3C
111:5E;116:7D;118:1B;404:3C
111:5E;116:7D;118:1B;404:3C
111:5E;116:7D;118:1B;404:3C
111:5E;116:7D;118:1B;404:3C
111:5E;116:7D;118:1B;404:3C
111:5E;116:7D;118:1B;404:3C
111:5E;116:7D;118:1B;400:3C
116:7D;400:3C
116:7C;118:3B;400:3C
116:7C;118:3B;400:3C
M_SBA1
M_SBA2
M_SBA3
M_SBA4
M_SBA5
M_SBA6
M_SBA7
M_SBA8
M_SBA9
M_SBA10
M_SBA11
M_SBA12
M_SBA13
M_SBA14
M_SBA15
M_SBA16
M_SBA17
M_SBA18
116:7C;118:3B;400:3C
116:7C;118:3B;400:3C
116:7C;118:3B
M_SBA20
M_SBA21
M_SBA22
V46A00011200
M29W640FT70N6E
[V-M29LV640MT]
IC281
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
A20
A21
RY/BY#
CE#
OE#
WE#
RESET#
BYTE#
WP#/ACC
R2801
4.7K (J)
GND
3.3V
R2804
4.7K (J)
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
Q11
Q12
Q13
Q14
Q15/A-1
M_SBD0
M_SBD1
M_SBD2
M_SBD3
M_SBD4
M_SBD5
M_SBD6
M_SBD7
M_BE0
SBADD0と SHARE
3.3V
[Vcc]
[GND]
[GND]
C2801
100nF (K)
GND

U05A EU_DIGITAL [118] NOR FLASH (PE0284)



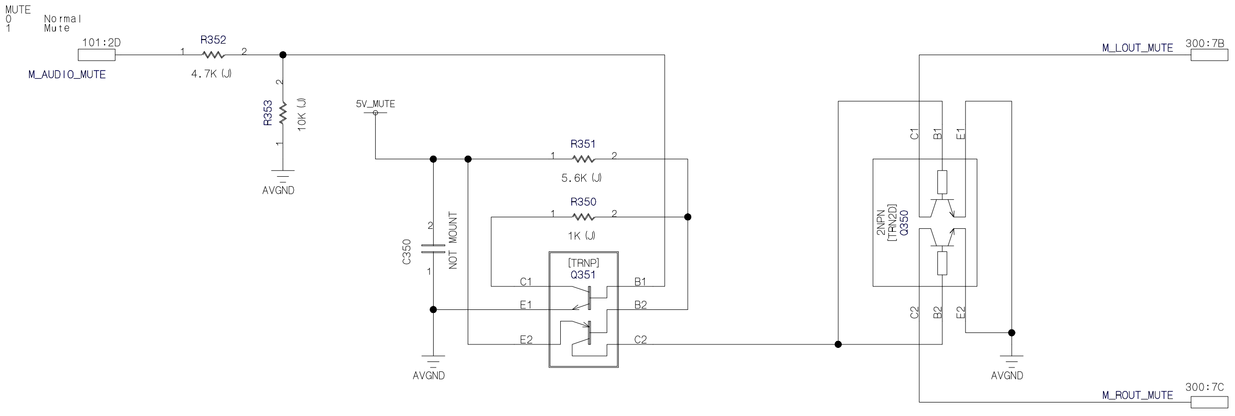
12V
FL305
0 (X)
C316 1nF (K)
C317 2.2uF (K)
C320 2.2uF (K)
AVGND
5V-Ana-Reg
FL306
0 (X)
5V_DAC
C318 1nF (K)
C319 10uF (K)
5V_MUTE
W303
0 (X)
W302
NOT MOUNT
C305
10uF (K)
R318
10K (F)
C311
560pF (K)
50V
R309
6.8K (J)
R310
18K (D)
C312
120pF (J)
R313
1K (J)
[TRP]
Q301
NOT MOUNT
FL303
NOT MOUNT
C314
10uF (K)
R314
220 (F)
PCM1754DBQR
DAC
[L1754A]
IC301
10K (J)
[RMX4A]
RM301
FMT
MUTE
DEMP
BCK
LRCK
DATA
SCK
TEST
ZEROA
VOUTL
VCOM
VOUTR
[VCC]
[NC]
[AGND]
[DGND]
104:6D
A_ABCKO
A_ALRCKO
A_ASDO0
A_AOSCLKO
FL307
220ohm
FL308
220ohm
5V_DAC
C301
10uF (K)
10V
C302
100nF (K)
10V
C303
1nF (K)
50V
C304
NOT MOUNT
R301
R302
NOT MOUNT
GND
R303
4.7K (J)
C306
10uF (K)
C307
4.7uF (K)
10V
R304
4.7K (J)
C309
10nF (K)
16V
R305
10K (F)
R306
10K (F)
V47GD0000998
OP-AMP
[L4580]
IC302
A-INPUT
A+INPUT
B-INPUT
B+INPUT
[V+]
AOUTPUT
BOUTPUT
[V-]
RC4580IPWR
R317
100K (J)
R315
100K (J)
301:7C
M_LOUT_MUTE
301:7D
M_ROUT_MUTE
C315
10uF (K)
R316
220 (F)
C313
120pF (J)
R312
1K (J)
[TRP]
Q302
NOT MOUNT
R307
6.8K (J)
R311
18K (D)
FL304
NOT MOUNT
C308
10uF (K)
W301
NOT MOUNT
R308
10K (F)
C310
560pF (K)
50V
FL302
60ohm
FL301
60ohm
Analogue
Audio out
LOUT
ROUT
P212B
[SNC]
V22GD0000971
TO U03A AV_TERMINAL
[1] CONNECTOR (PE0250)
P212B → PL212
FL611
MPZ1608S600AT
W612
0 (X)
104:4D
B_CVBS
[FL09B]
FL615
NOT MOUNT
R611
100 (F)
Q611
2SC4116-Y (TE85L, F)
R612
4.7 (J)
R614
NOT MOUNT
R613
330 (J)
C611
100nF (K)
C615
10uF (K)
C616
NOT MOUNT
FL610
MPZ1608S221AT
5V-Ana-Reg
W611
0 (X)
[V-L1672]
IC611
PS
IN
SAG
OUT
[VCC]
[GND]
NOT MOUNT
C612
NOT MOUNT
C613
100nF (K)
[DZ]
D611
NOT MOUNT
R615
75 (J)
C614
220pF (J)
CVBS OUTPUT
FL612
MPZ1608S600AT

FMT
0 16-24bit I2S
1 16bit RJ

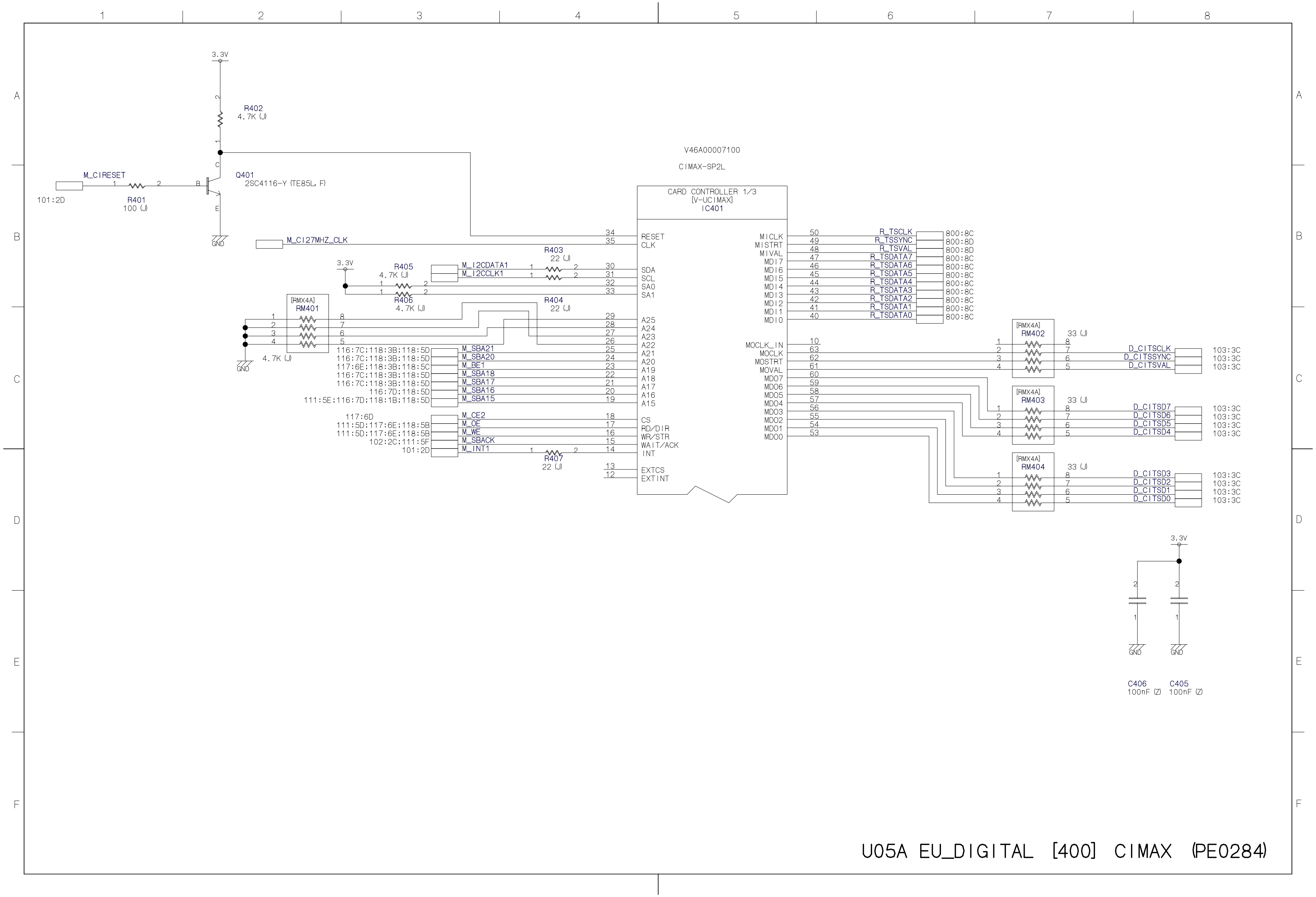
DEMH DE-EMPHASIS (44.1kHz)
0 OFF
1 ON

MUTE
0 Normal
1 Mute

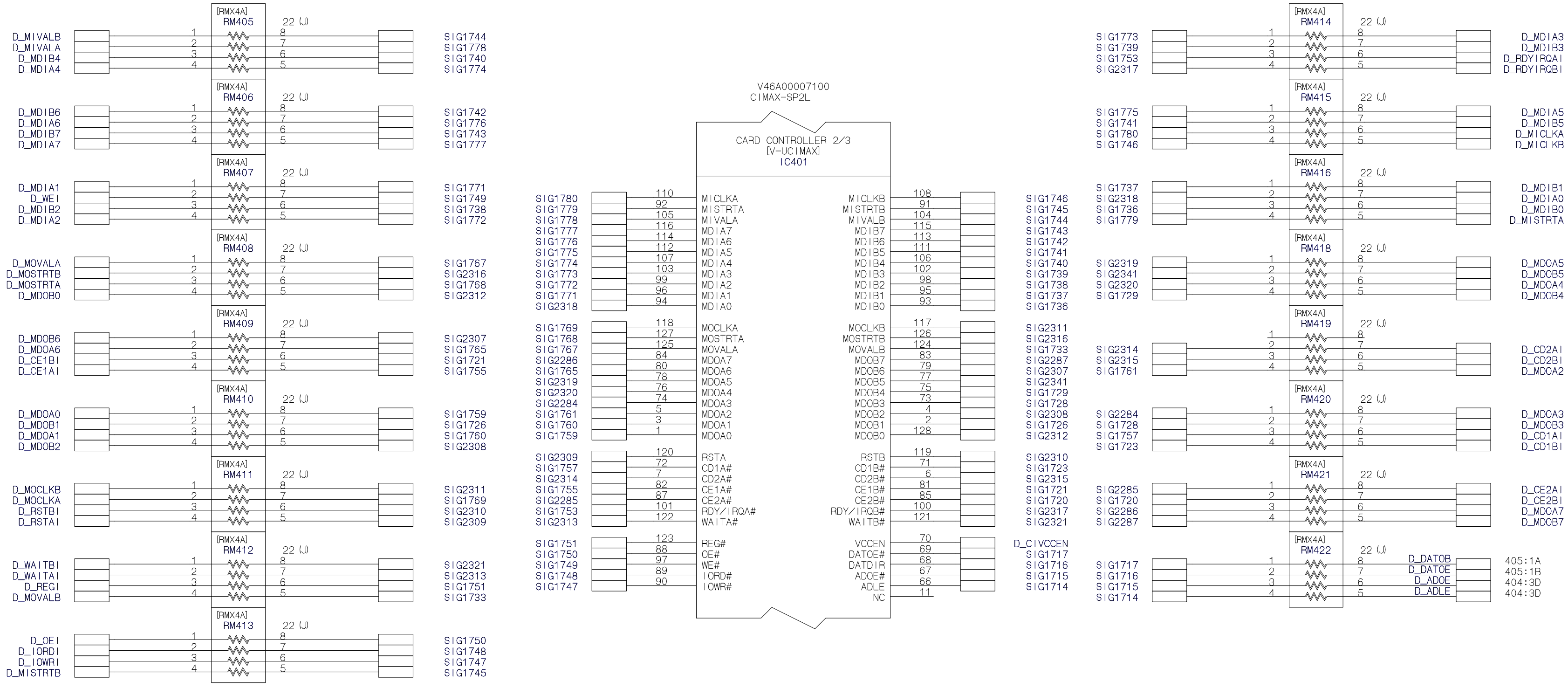
U05A EU_DIGITAL [300] AUDIO DAC (ASP0) (PE0284)


MUTE
0 Normal
1 Mute
101:2D
M_AUDIO_MUTE
R352
4.7K (J)
1
2
R353
10K (J)
AVGND
5V_MUTE
R351
5.6K (J)
R350
1K (J)
C350
NOT MOUNT
[TRNP]
Q351
C1
E1
E2
B1
B2
C2
AVGND
2NPN
[TRN2D]
Q350
C1
B1
E1
C2
B2
E2
AVGND
M_LOUT_MUTE
300:7B
M_ROUT_MUTE
300:7C

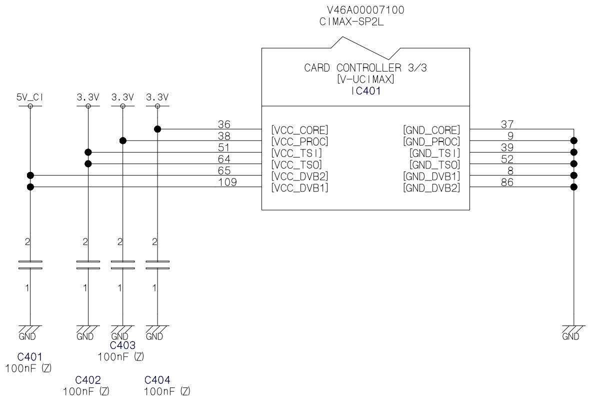
U05A EU_DIGITAL [301] AUDIO MUTE (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
3.3V
R402
4.7K (J)
2
1
C
Q401
2SC4116-Y (TE85L, F)
M_CIRESET
1
2
B
E
101:2D
R401
100 (J)
GND
V46A00007100
CIMAX-SP2L
CARD CONTROLLER 1/3
[V-UCIMAX]
IC401
M_CI27MHZ_CLK
34 RESET
35 CLK
R403
22 (J)
3.3V
R405
4.7K (J)
M_I2CDATA1
M_I2CCLK1
30 SDA
31 SCL
32 SA0
33 SA1
R406
4.7K (J)
R404
22 (J)
[RMX4A]
RM401
4.7K (J)
GND
29 A25
28 A24
27 A23
26 A22
116:7C;118:3B;118:5D M_SBA21 25 A21
116:7C;118:3B;118:5D M_SBA20 24 A20
117:6E;118:3B;118:5C M_BE1 23 A19
116:7C;118:3B;118:5D M_SBA18 22 A18
116:7C;118:3B;118:5D M_SBA17 21 A17
116:7D;118:5D M_SBA16 20 A16
111:5E;116:7D;118:1B;118:5D M_SBA15 19 A15
117:6D M_CE2 18 CS
111:5D;117:6E;118:5B M_OE 17 RD/DIR
111:5D;117:6E;118:5B M_WE 16 WR/STR
102:2C;111:5F M_SBACK 15 WAIT/ACK
101:2D M_INT1 14 INT
R407
22 (J)
13 EXTCS
12 EXTINT
MICLK 50 R_TSCLK 800:8C
MISTRT 49 R_TSSYNC 800:8D
MIVAL 48 R_TSVAL 800:8D
MDI7 47 R_TSDATA7 800:8C
MDI6 46 R_TSDATA6 800:8C
MDI5 45 R_TSDATA5 800:8C
MDI4 44 R_TSDATA4 800:8C
MDI3 43 R_TSDATA3 800:8C
MDI2 42 R_TSDATA2 800:8C
MDI1 41 R_TSDATA1 800:8C
MDI0 40 R_TSDATA0 800:8C
MOCLK_IN 10
MOCLK 63
MOSTRT 62
MOVAL 61
MDO7 60
MDO6 59
MDO5 58
MDO4 57
MDO3 56
MDO2 55
MDO1 54
MDO0 53
[RMX4A]
RM402
33 (J)
D_CITSCLK 103:3C
D_CITSSYNC 103:3C
D_CITSVAL 103:3C
[RMX4A]
RM403
33 (J)
D_CITSD7 103:3C
D_CITSD6 103:3C
D_CITSD5 103:3C
D_CITSD4 103:3C
[RMX4A]
RM404
33 (J)
D_CITSD3 103:3C
D_CITSD2 103:3C
D_CITSD1 103:3C
D_CITSD0 103:3C
3.3V
GND
GND
C406
100nF (Z)
C405
100nF (Z)

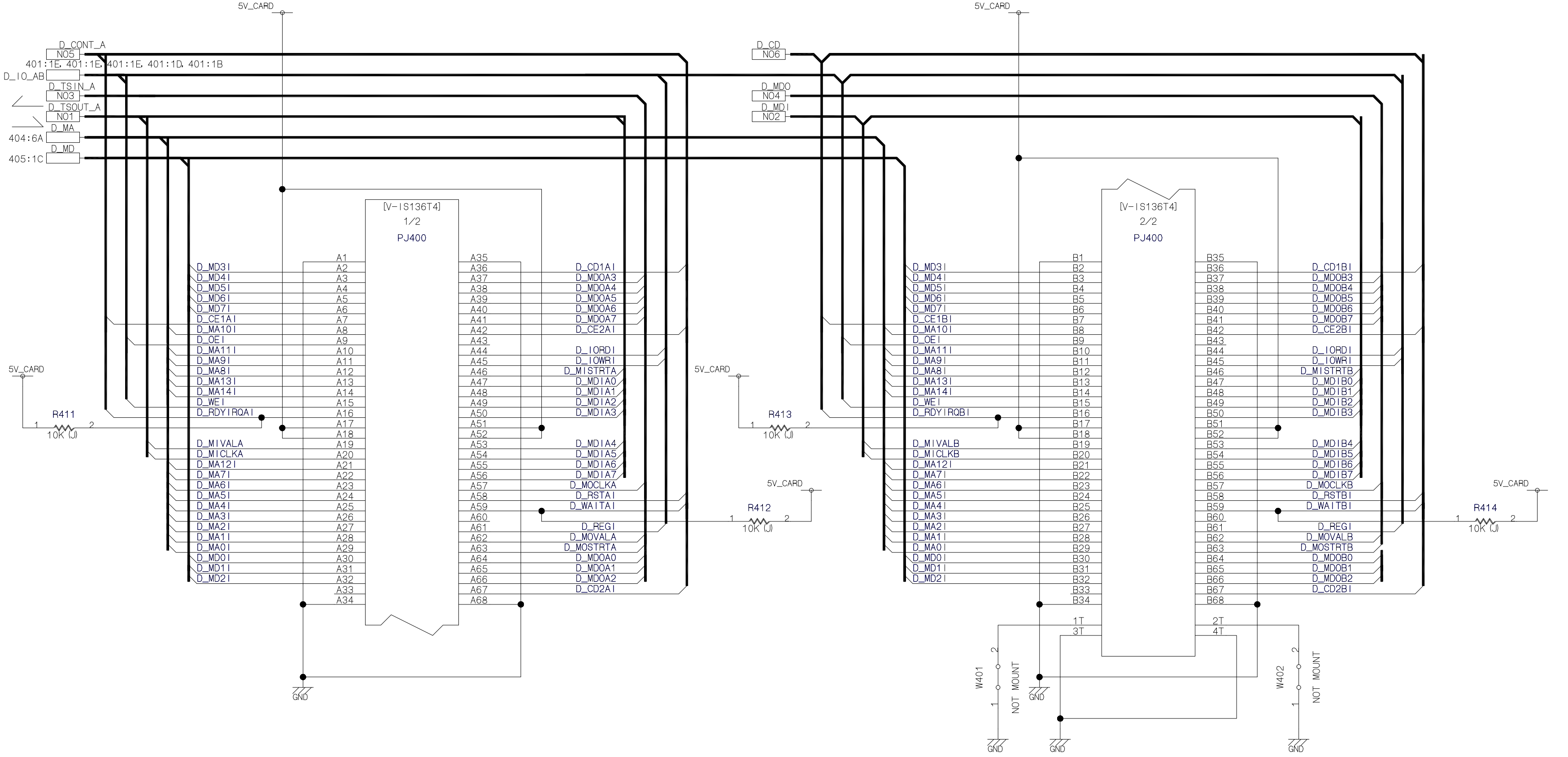
U05A EU_DIGITAL [400] CIMAX (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
[RMX4A]
RM405
22 (J)
D_MIVALB
D_MIVALA
D_MDIB4
D_MDIA4
SIG1744
SIG1778
SIG1740
SIG1774
RM406
D_MDIB6
D_MDIA6
D_MDIB7
D_MDIA7
SIG1742
SIG1776
SIG1743
SIG1777
RM407
D_MDIA1
D_WEI
D_MDIB2
D_MDIA2
SIG1771
SIG1749
SIG1738
SIG1772
RM408
D_MOVALA
D_MOSTRTB
D_MOSTRTA
D_MDOB0
SIG1767
SIG2316
SIG1768
SIG2312
RM409
D_MDOB6
D_MDOA6
D_CE1BI
D_CE1AI
SIG2307
SIG1765
SIG1721
SIG1755
RM410
D_MDOA0
D_MDOB1
D_MDOA1
D_MDOB2
SIG1759
SIG1726
SIG1760
SIG2308
RM411
D_MOCLKB
D_MOCLKA
D_RSTBI
D_RSTAI
SIG2311
SIG1769
SIG2310
SIG2309
RM412
D_WAITBI
D_WAITAI
D_REGI
D_MOVALB
SIG2321
SIG2313
SIG1751
SIG1733
RM413
D_OEI
D_IORDI
D_IOWRI
D_MISTRTB
SIG1750
SIG1748
SIG1747
SIG1745
V46A00007100
CIMAX-SP2L
CARD CONTROLLER 2/3
[V-UCIMAX]
IC401
SIG1780 110 MICLKA
SIG1779 92 MISTRTA
SIG1778 105 MIVALA
SIG1777 116 MDIA7
SIG1776 114 MDIA6
SIG1775 112 MDIA5
SIG1774 107 MDIA4
SIG1773 103 MDIA3
SIG1772 99 MDIA2
SIG1771 96 MDIA1
SIG2318 94 MDIA0
SIG1769 118 MOCLKA
SIG1768 127 MOSTRTA
SIG1767 125 MOVALA
SIG2286 84 MDOA7
SIG1765 80 MDOA6
SIG2319 78 MDOA5
SIG2320 76 MDOA4
SIG2284 74 MDOA3
SIG1761 5 MDOA2
SIG1760 3 MDOA1
SIG1759 1 MDOA0
SIG2309 120 RSTA
SIG1757 72 CD1A#
SIG2314 7 CD2A#
SIG1755 82 CE1A#
SIG2285 87 CE2A#
SIG1753 101 RDY/IRQA#
SIG2313 122 WAITA#
SIG1751 123 REG#
SIG1750 88 OE#
SIG1749 97 WE#
SIG1748 89 IORD#
SIG1747 90 IOWR#
MICLKB 108 SIG1746
MISTRTB 91 SIG1745
MIVALB 104 SIG1744
MDIB7 115 SIG1743
MDIB6 113 SIG1742
MDIB5 111 SIG1741
MDIB4 106 SIG1740
MDIB3 102 SIG1739
MDIB2 98 SIG1738
MDIB1 95 SIG1737
MDIB0 93 SIG1736
MOCLKB 117 SIG2311
MOSTRTB 126 SIG2316
MOVALB 124 SIG1733
MDOB7 83 SIG2287
MDOB6 79 SIG2307
MDOB5 77 SIG2341
MDOB4 75 SIG1729
MDOB3 73 SIG1728
MDOB2 4 SIG2308
MDOB1 2 SIG1726
MDOB0 128 SIG2312
RSTB 119 SIG2310
CD1B# 71 SIG1723
CD2B# 6 SIG2315
CE1B# 81 SIG1721
CE2B# 85 SIG1720
RDY/IRQB# 100 SIG2317
WAITB# 121 SIG2321
VCCEN 70 D_CIVCCEN
DATOE# 69 SIG1717
DATDIR 68 SIG1716
ADOE# 67 SIG1715
ADLE 66 SIG1714
NC 11
RM414
SIG1773
SIG1739
SIG1753
SIG2317
D_MDIA3
D_MDIB3
D_RDYIRQAI
D_RDYIRQBI
RM415
SIG1775
SIG1741
SIG1780
SIG1746
D_MDIA5
D_MDIB5
D_MICLKA
D_MICLKB
RM416
SIG1737
SIG2318
SIG1736
SIG1779
D_MDIB1
D_MDIA0
D_MDIB0
D_MISTRTA
RM418
SIG2319
SIG2341
SIG2320
SIG1729
D_MDOA5
D_MDOB5
D_MDOA4
D_MDOB4
RM419
SIG2314
SIG2315
SIG1761
D_CD2AI
D_CD2BI
D_MDOA2
RM420
SIG2284
SIG1728
SIG1757
SIG1723
D_MDOA3
D_MDOB3
D_CD1AI
D_CD1BI
RM421
SIG2285
SIG1720
SIG2286
SIG2287
D_CE2AI
D_CE2BI
D_MDOA7
D_MDOB7
RM422
SIG1717
SIG1716
SIG1715
SIG1714
D_DATOB
D_DATOE
D_ADOE
D_ADLE
405:1A
405:1B
404:3D
404:3D

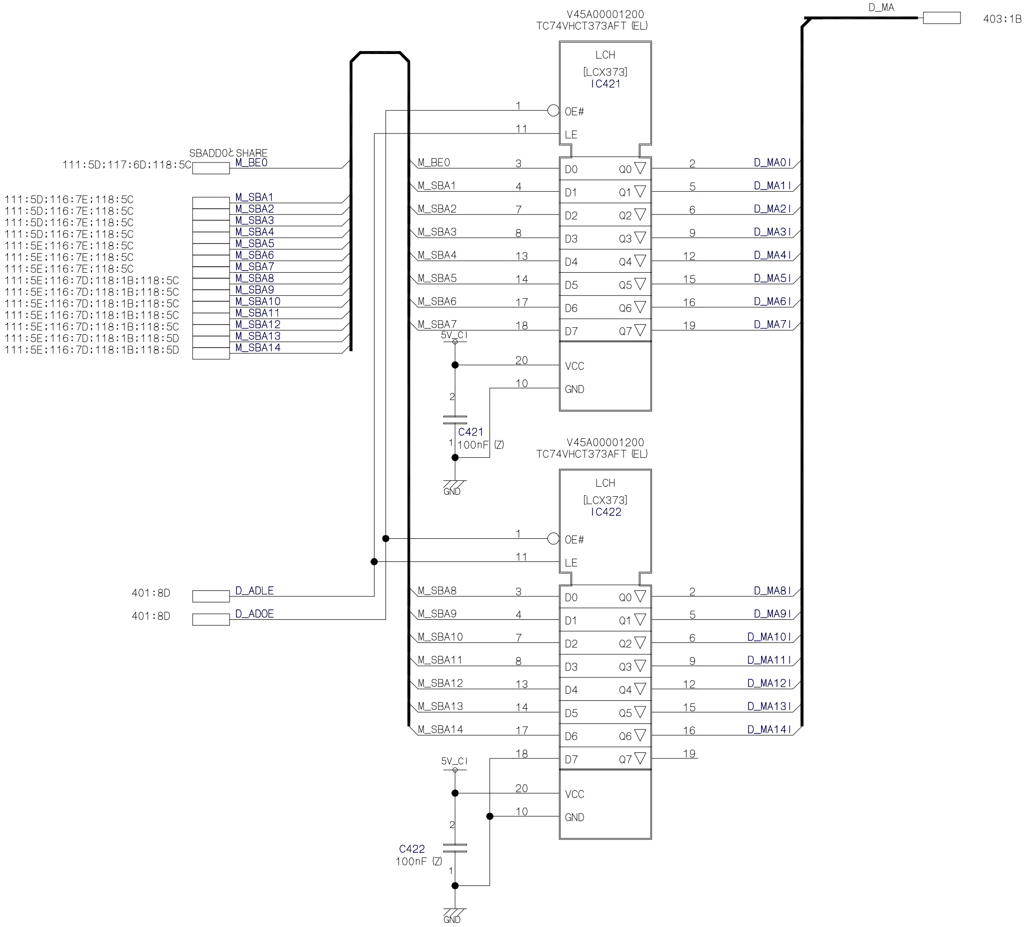
U05A EU_DIGITAL [401] CPLD XILINX (PE0284)


V46A00007100
CIMAX-SP2L
CARD CONTROLLER 3/3
[V-UCIMAX]
IC401
5V_CI
3.3V
3.3V
3.3V
36
38
51
64
65
109
[VCC_CORE]
[VCC_PROC]
[VCC_TSI]
[VCC_TSO]
[VCC_DVB2]
[VCC_DVB1]
[GND_CORE]
[GND_PROC]
[GND_TSI]
[GND_TSO]
[GND_DVB1]
[GND_DVB2]
37
9
39
52
8
86
2
2
2
2
1
1
1
1
GND
GND
GND
GND
GND
C401
100nF (Z)
C402
100nF (Z)
C403
100nF (Z)
C404
100nF (Z)

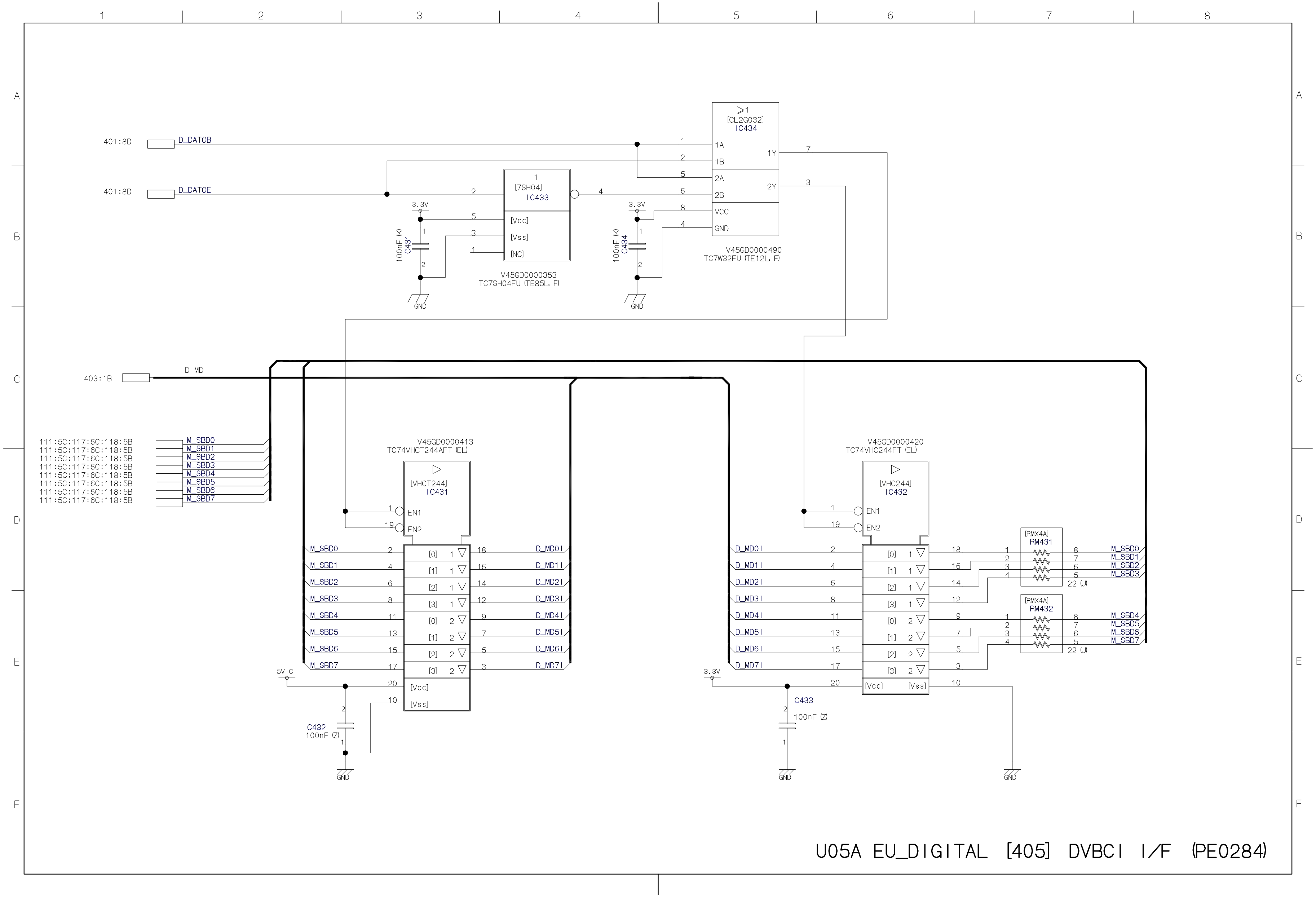
U05A EU_DIGITAL [402] CPLD XILINX (PE0284)


D_CONT_A
NO5
401:1E, 401:1E, 401:1E, 401:1D, 401:1B
D_IO_AB
D_TSIN_A
NO3
D_TSOUT_A
NO1
D_MA
404:6A
D_MD
405:1C
D_CD
NO6
D_MD0
NO4
D_MDI
NO2
5V_CARD
[V-IS136T4]
1/2
PJ400
[V-IS136T4]
2/2
PJ400
D_MD3I
D_MD4I
D_MD5I
D_MD6I
D_MD7I
D_CE1AI
D_MA10I
D_OEI
D_MA11I
D_MA9I
D_MA8I
D_MA13I
D_MA14I
D_WEI
D_RDYIRQAI
D_MIVALA
D_MICLKA
D_MA12I
D_MA7I
D_MA6I
D_MA5I
D_MA4I
D_MA3I
D_MA2I
D_MA1I
D_MA0I
D_MD0I
D_MD1I
D_MD2I
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 A21 A22 A23 A24 A25 A26 A27 A28 A29 A30 A31 A32 A33 A34
A35 A36 A37 A38 A39 A40 A41 A42 A43 A44 A45 A46 A47 A48 A49 A50 A51 A52 A53 A54 A55 A56 A57 A58 A59 A60 A61 A62 A63 A64 A65 A66 A67 A68
D_CD1AI
D_MDOA3
D_MDOA4
D_MDOA5
D_MDOA6
D_MDOA7
D_CE2AI
D_IORDI
D_IOWRI
D_MISTRTA
D_MDIA0
D_MDIA1
D_MDIA2
D_MDIA3
D_MDIA4
D_MDIA5
D_MDIA6
D_MDIA7
D_MOCLKA
D_RSTAI
D_WAITAI
D_REGI
D_MOVALA
D_MOSTRTA
D_MDOA0
D_MDOA1
D_MDOA2
D_CD2AI
R411
10K (J)
R412
10K (J)
R413
10K (J)
R414
10K (J)
1
2
GND
D_MD3I
D_MD4I
D_MD5I
D_MD6I
D_MD7I
D_CE1BI
D_MA10I
D_OEI
D_MA11I
D_MA9I
D_MA8I
D_MA13I
D_MA14I
D_WEI
D_RDYIRQBI
D_MIVALB
D_MICLKB
D_MA12I
D_MA7I
D_MA6I
D_MA5I
D_MA4I
D_MA3I
D_MA2I
D_MA1I
D_MA0I
D_MD0I
D_MD1I
D_MD2I
B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20 B21 B22 B23 B24 B25 B26 B27 B28 B29 B30 B31 B32 B33 B34
B35 B36 B37 B38 B39 B40 B41 B42 B43 B44 B45 B46 B47 B48 B49 B50 B51 B52 B53 B54 B55 B56 B57 B58 B59 B60 B61 B62 B63 B64 B65 B66 B67 B68
1T 3T 2T 4T
D_CD1BI
D_MDOB3
D_MDOB4
D_MDOB5
D_MDOB6
D_MDOB7
D_CE2BI
D_IORDI
D_IOWRI
D_MISTRTB
D_MDIB0
D_MDIB1
D_MDIB2
D_MDIB3
D_MDIB4
D_MDIB5
D_MDIB6
D_MDIB7
D_MOCLKB
D_RSTBI
D_WAITBI
D_REGI
D_MOVALB
D_MOSTRTB
D_MDOB0
D_MDOB1
D_MDOB2
D_CD2BI
W401
W402
NOT MOUNT
NOT MOUNT

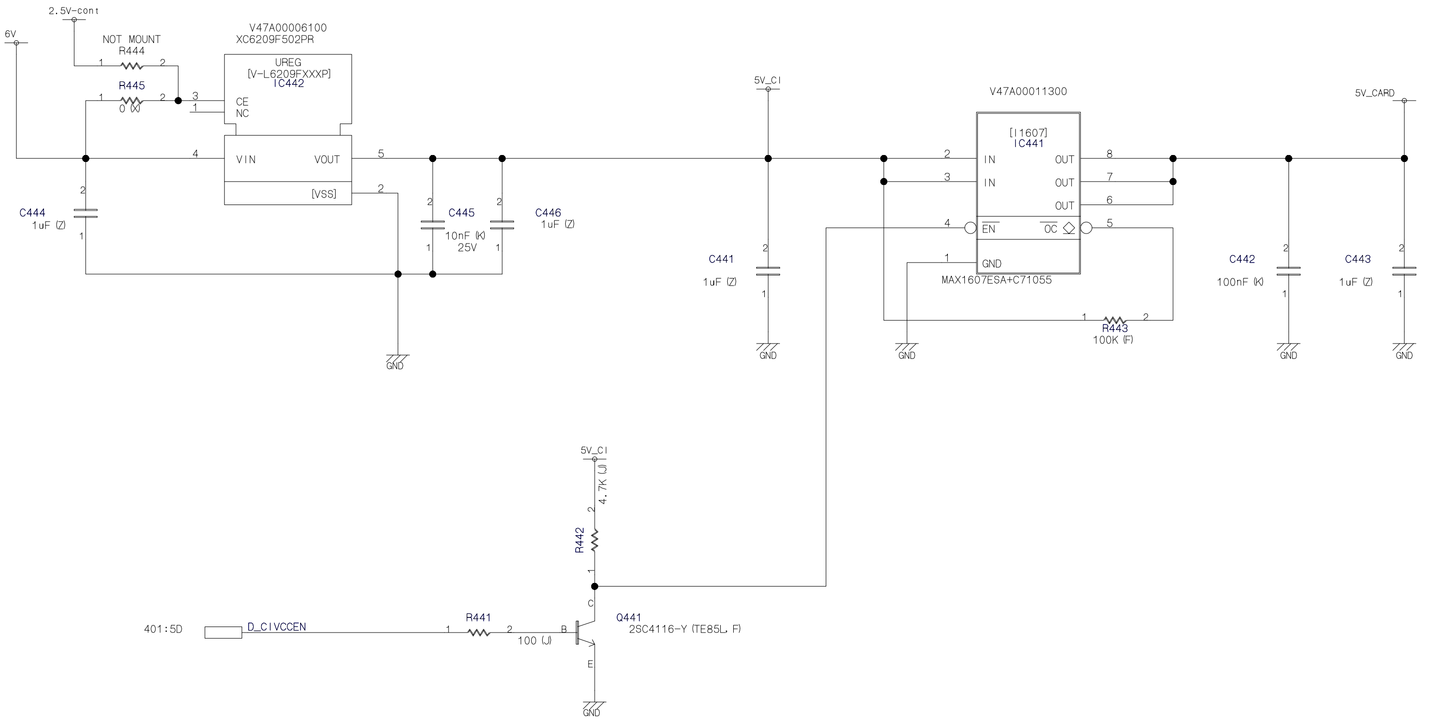
U05A EU_DIGITAL [403] SLOWBUS (PE0284)


V45A00001200
TC74VHCT373AFT (EL)
LCH
[LCX373]
IC421
OE#
LE
D0
D1
D2
D3
D4
D5
D6
D7
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
VCC
GND
SBADD0と SHARE
111:5D;117:6D;118:5C
M_BE0
111:5D;116:7E;118:5C
111:5D;116:7E;118:5C
111:5D;116:7E;118:5C
111:5D;116:7E;118:5C
111:5E;116:7E;118:5C
111:5E;116:7E;118:5C
111:5E;116:7E;118:5C
111:5E;116:7D;118:1B;118:5C
111:5E;116:7D;118:1B;118:5C
111:5E;116:7D;118:1B;118:5C
111:5E;116:7D;118:1B;118:5C
111:5E;116:7D;118:1B;118:5C
111:5E;116:7D;118:1B;118:5D
111:5E;116:7D;118:1B;118:5D
M_SBA1
M_SBA2
M_SBA3
M_SBA4
M_SBA5
M_SBA6
M_SBA7
M_SBA8
M_SBA9
M_SBA10
M_SBA11
M_SBA12
M_SBA13
M_SBA14
D_MA
403:1B
D_MA0I
D_MA1I
D_MA2I
D_MA3I
D_MA4I
D_MA5I
D_MA6I
D_MA7I
5V_CI
C421
100nF (Z)
GND
V45A00001200
TC74VHCT373AFT (EL)
LCH
[LCX373]
IC422
401:8D
D_ADLE
401:8D
D_ADOE
D_MA8I
D_MA9I
D_MA10I
D_MA11I
D_MA12I
D_MA13I
D_MA14I
5V_CI
C422
100nF (Z)
GND

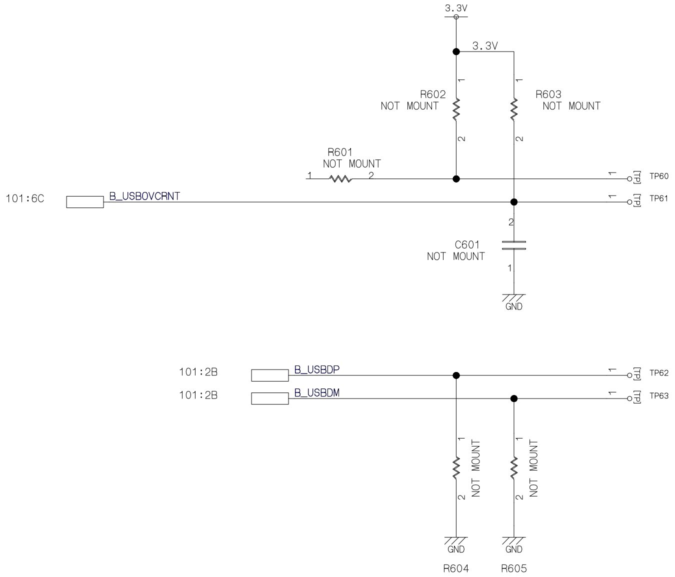
U05A EU_DIGITAL [404] PODVPP (PE0284)


401:8D
D_DAT0B
401:8D
D_DAT0E
≥1
[CL2G032]
IC434
1A
1B
2A
2B
VCC
GND
1Y
2Y
V45GD0000490
TC7W32FU (TE12L, F)
1
[7SH04]
IC433
[Vcc]
[Vss]
[NC]
V45GD0000353
TC7SH04FU (TE85L, F)
3.3V
C431
100nF (K)
C434
100nF (K)
GND
403:1B
D_MD
111:5C:117:6C:118:5B
M_SBD0
M_SBD1
M_SBD2
M_SBD3
M_SBD4
M_SBD5
M_SBD6
M_SBD7
V45GD0000413
TC74VHCT244AFT (EL)
[VHCT244]
IC431
EN1
EN2
D_MD0I
D_MD1I
D_MD2I
D_MD3I
D_MD4I
D_MD5I
D_MD6I
D_MD7I
5V_CI
[Vcc]
[Vss]
C432
100nF (Z)
V45GD0000420
TC74VHC244FT (EL)
[VHC244]
IC432
[RMX4A]
RM431
22 (J)
[RMX4A]
RM432
22 (J)
C433
100nF (Z)
[Vcc]
[Vss]
1
2
3
4
5
6
7
8
A
B
C
D
E
F

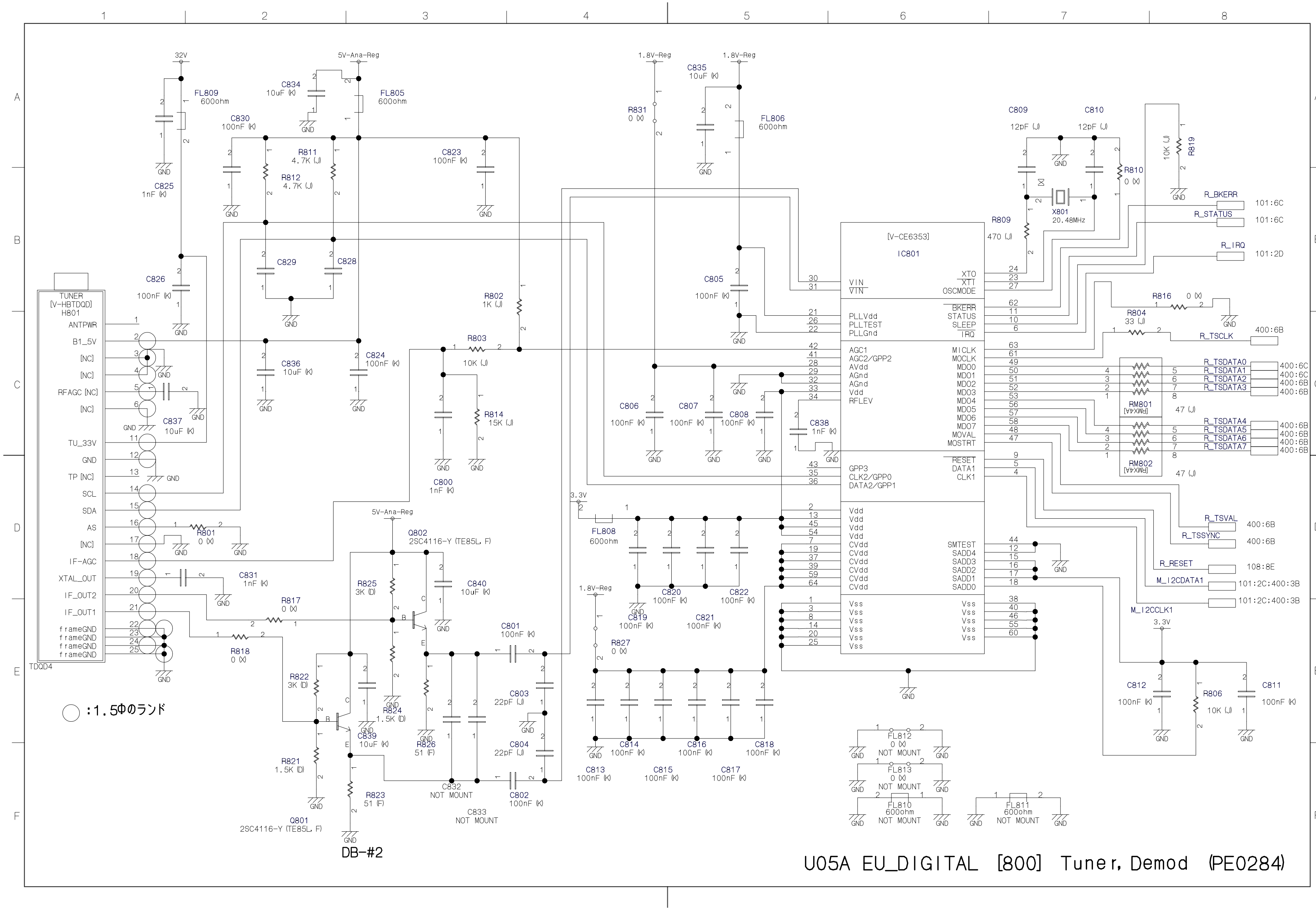
U05A EU_DIGITAL [405] DVBCI I/F (PE0284)


6V
2.5V-cont
NOT MOUNT
R444
R445
0 (X)
V47A00006100
XC6209F502PR
UREG
[V-L6209FXXXP]
IC442
CE
NC
VIN
VOUT
[VSS]
C444
1uF (Z)
C445
10nF (K)
25V
C446
1uF (Z)
GND
5V_CI
C441
1uF (Z)
V47A00011300
[I1607]
IC441
IN
IN
OUT
OUT
OUT
EN
OC
GND
MAX1607ESA+C71055
R443
100K (F)
5V_CARD
C442
100nF (K)
C443
1uF (Z)
5V_CI
4.7K (J)
R442
401:5D
D_CIVCCEN
R441
100 (J)
Q441
2SC4116-Y (TE85L, F)
B
C
E
GND

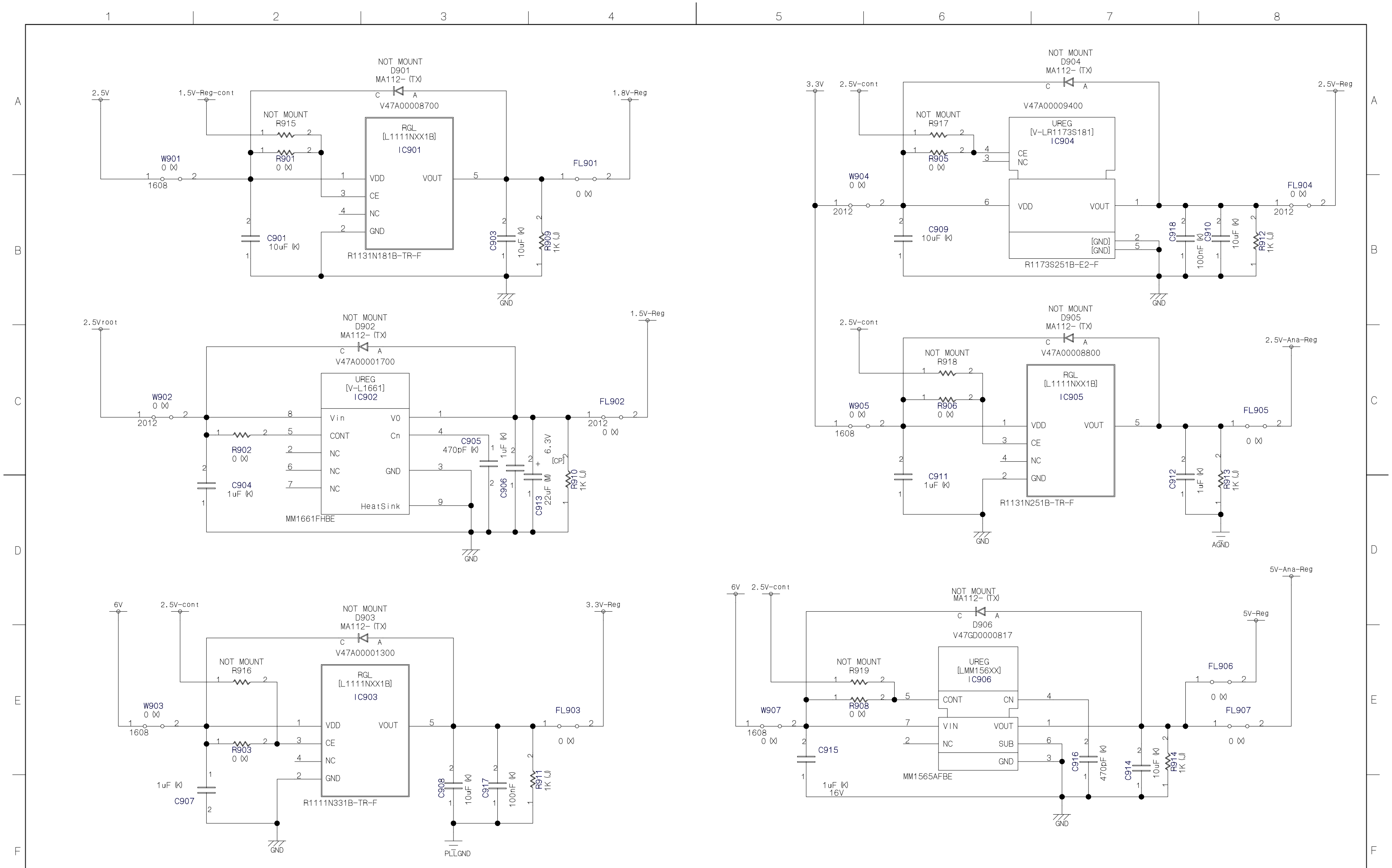
U05A EU_DIGITAL [406] CARDVCC (PE0284)


3.3V
3.3V
R602
NOT MOUNT
R603
NOT MOUNT
R601
NOT MOUNT
1
2
101:6C
B_USBOVCRNT
TP60
TP61
C601
NOT MOUNT
GND
101:2B
B_USBDP
101:2B
B_USBDM
TP62
TP63
NOT MOUNT
NOT MOUNT
GND
GND
R604
R605

U05A EU_DIGITAL [600] USB (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
32V
5V-Ana-Reg
1.8V-Reg
1.8V-Reg
FL809
600ohm
C825
1nF (K)
C834
10uF (K)
FL805
600ohm
C830
100nF (K)
R811
4.7K (J)
R812
4.7K (J)
C823
100nF (K)
R831
0 (X)
C835
10uF (K)
FL806
600ohm
C809
12pF (J)
C810
12pF (J)
R810
0 (X)
R819
10K (J)
X801
20.48MHz
R809
470 (J)
C829
C828
C826
100nF (K)
R802
1K (J)
R803
10K (J)
C805
100nF (K)
[V-CE6353]
IC801
VIN
VIN
PLLVdd
PLLTEST
PLLGnd
AGC1
AGC2/GPP2
AVdd
AGnd
AGnd
Vdd
RFLEV
GPP3
CLK2/GPP0
DATA2/GPP1
Vdd
CVdd
Vss
XTO
XTI
OSCMODE
BKERR
STATUS
SLEEP
IRQ
MICLK
MOCLK
MDO0
MDO1
MDO2
MDO3
MDO4
MDO5
MDO6
MDO7
MOVAL
MOSTRT
RESET
DATA1
CLK1
SMTEST
SADD4
SADD3
SADD2
SADD1
SADD0
R_BKERR
R_STATUS
R_IRQ
101:6C
101:6C
101:2D
R816
0 (X)
R804
33 (J)
R_TSCLK
400:6B
R_TSDATA0
R_TSDATA1
R_TSDATA2
R_TSDATA3
R_TSDATA4
R_TSDATA5
R_TSDATA6
R_TSDATA7
400:6C
400:6C
400:6B
400:6B
400:6B
400:6B
400:6B
400:6B
RM801
[RMX4A]
RM802
[RMX4A]
47 (J)
47 (J)
R_TSVAL
R_TSSYNC
400:6B
400:6B
R_RESET
108:8E
M_I2CDATA1
101:2C:400:3B
M_I2CCLK1
101:2C:400:3B
3.3V
C812
100nF (K)
R806
10K (J)
C811
100nF (K)
TUNER
[V-HBTDQD]
H801
ANTPWR
B1_5V
[NC]
[NC]
RFAGC [NC]
[NC]
TU_33V
GND
TP [NC]
SCL
SDA
AS
[NC]
IF-AGC
XTAL_OUT
IF_OUT2
IF_OUT1
frameGND
frameGND
frameGND
frameGND
TDQD4
C836
10uF (K)
C824
100nF (K)
C837
10uF (K)
R814
15K (J)
C800
1nF (K)
R801
0 (X)
C806
100nF (K)
C807
100nF (K)
C808
100nF (K)
C838
1nF (K)
3.3V
FL808
600ohm
C819
100nF (K)
C820
100nF (K)
C821
100nF (K)
C822
100nF (K)
1.8V-Reg
R827
0 (X)
C813
100nF (K)
C814
100nF (K)
C815
100nF (K)
C816
100nF (K)
C817
100nF (K)
C818
100nF (K)
5V-Ana-Reg
Q802
2SC4116-Y (TE85L, F)
C831
1nF (K)
R825
3K (D)
C840
10uF (K)
R817
0 (X)
R818
0 (X)
C801
100nF (K)
R822
3K (D)
R824
1.5K (D)
C839
10uF (K)
R826
51 (F)
C803
22pF (J)
C804
22pF (J)
R821
1.5K (D)
R823
51 (F)
C832
NOT MOUNT
C833
NOT MOUNT
C802
100nF (K)
Q801
2SC4116-Y (TE85L, F)
DB-#2
FL812
0 (X)
NOT MOUNT
FL813
0 (X)
NOT MOUNT
FL810
600ohm
NOT MOUNT
FL811
600ohm
NOT MOUNT
GND
:1.5Φのランド

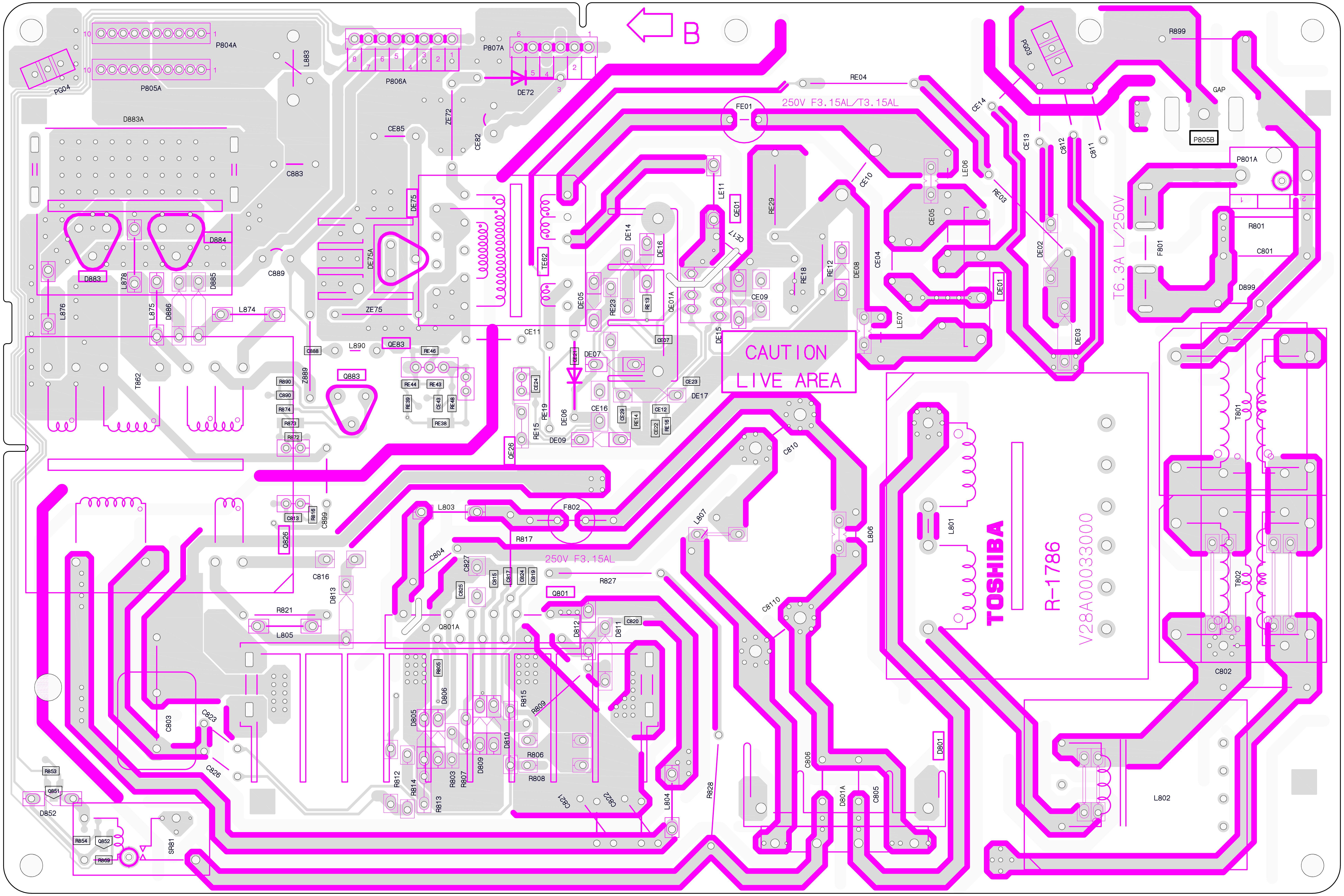
U05A EU_DIGITAL [800] Tuner, Demod (PE0284)


1
2
3
4
5
6
7
8
A
B
C
D
E
F
NOT MOUNT
D901
MA112-(TX)
C
A
V47A00008700
2.5V
1.5V-Reg-cont
1.8V-Reg
NOT MOUNT
R915
R901
0 (X)
RGL
[L1111NXX1B]
IC901
VDD
CE
NC
GND
VOUT
W901
0 (X)
1608
FL901
0 (X)
C901
10uF (K)
C903
10uF (K)
R909
1K (J)
R1131N181B-TR-F
GND
NOT MOUNT
D904
MA112-(TX)
V47A00009400
3.3V
2.5V-cont
2.5V-Reg
NOT MOUNT
R917
R905
0 (X)
UREG
[V-LR1173S181]
IC904
CE
NC
VDD
VOUT
[GND]
[GND]
W904
0 (X)
2012
C909
10uF (K)
C918
100nF (K)
C910
10uF (K)
R912
1K (J)
FL904
0 (X)
2012
R1173S251B-E2-F
GND
NOT MOUNT
D902
MA112-(TX)
V47A00001700
2.5Vroot
1.5V-Reg
UREG
[V-L1661]
IC902
Vin
CONT
NC
NC
NC
V0
Cn
GND
HeatSink
W902
0 (X)
2012
R902
0 (X)
C904
1uF (K)
C905
470pF (K)
C906
1uF (K)
C913
22uF (M)
6.3V
[CP]
R910
1K (J)
FL902
2012
0 (X)
MM1661FHBE
GND
NOT MOUNT
D905
MA112-(TX)
V47A00008800
2.5V-cont
2.5V-Ana-Reg
NOT MOUNT
R918
R906
0 (X)
RGL
[L1111NXX1B]
IC905
VDD
CE
NC
GND
VOUT
W905
0 (X)
1608
C911
1uF (K)
C912
1uF (K)
R913
1K (J)
FL905
0 (X)
R1131N251B-TR-F
GND
AGND
NOT MOUNT
D903
MA112-(TX)
V47A00001300
6V
2.5V-cont
3.3V-Reg
NOT MOUNT
R916
R903
0 (X)
RGL
[L1111NXX1B]
IC903
VDD
CE
NC
GND
VOUT
W903
0 (X)
1608
1uF (K)
C907
C908
10uF (K)
C917
100nF (K)
R911
1K (J)
FL903
0 (X)
R1111N331B-TR-F
GND
PLLGND
NOT MOUNT
MA112-(TX)
D906
V47GD0000817
6V
2.5V-cont
5V-Ana-Reg
5V-Reg
NOT MOUNT
R919
R908
0 (X)
UREG
[LMM156XX]
IC906
CONT
CN
VIN
VOUT
NC
SUB
GND
W907
1608
0 (X)
C915
1uF (K)
16V
C916
470pF (K)
C914
10uF (K)
R914
1K (J)
FL906
0 (X)
FL907
0 (X)
MM1565AFBE
GND

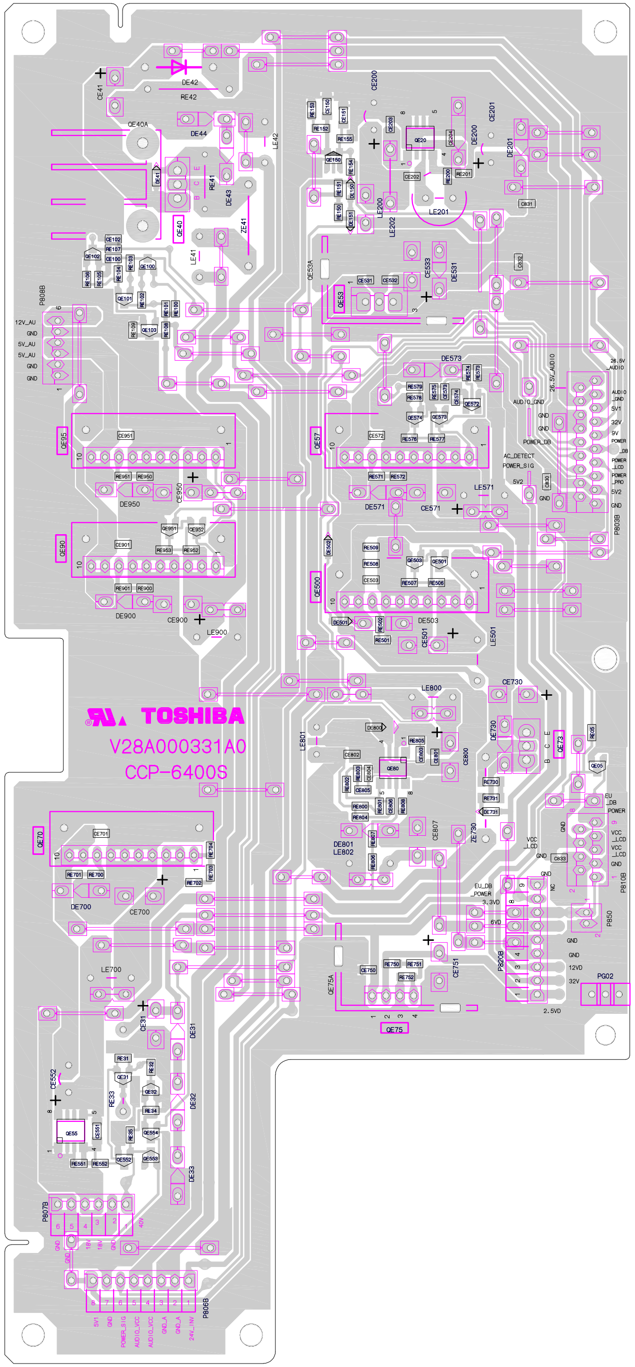
DB_#1

U05A EU_DIGITAL [900] POWER REGURATOR (PE0284)

U01A POWER [Bottom] (PE0252)

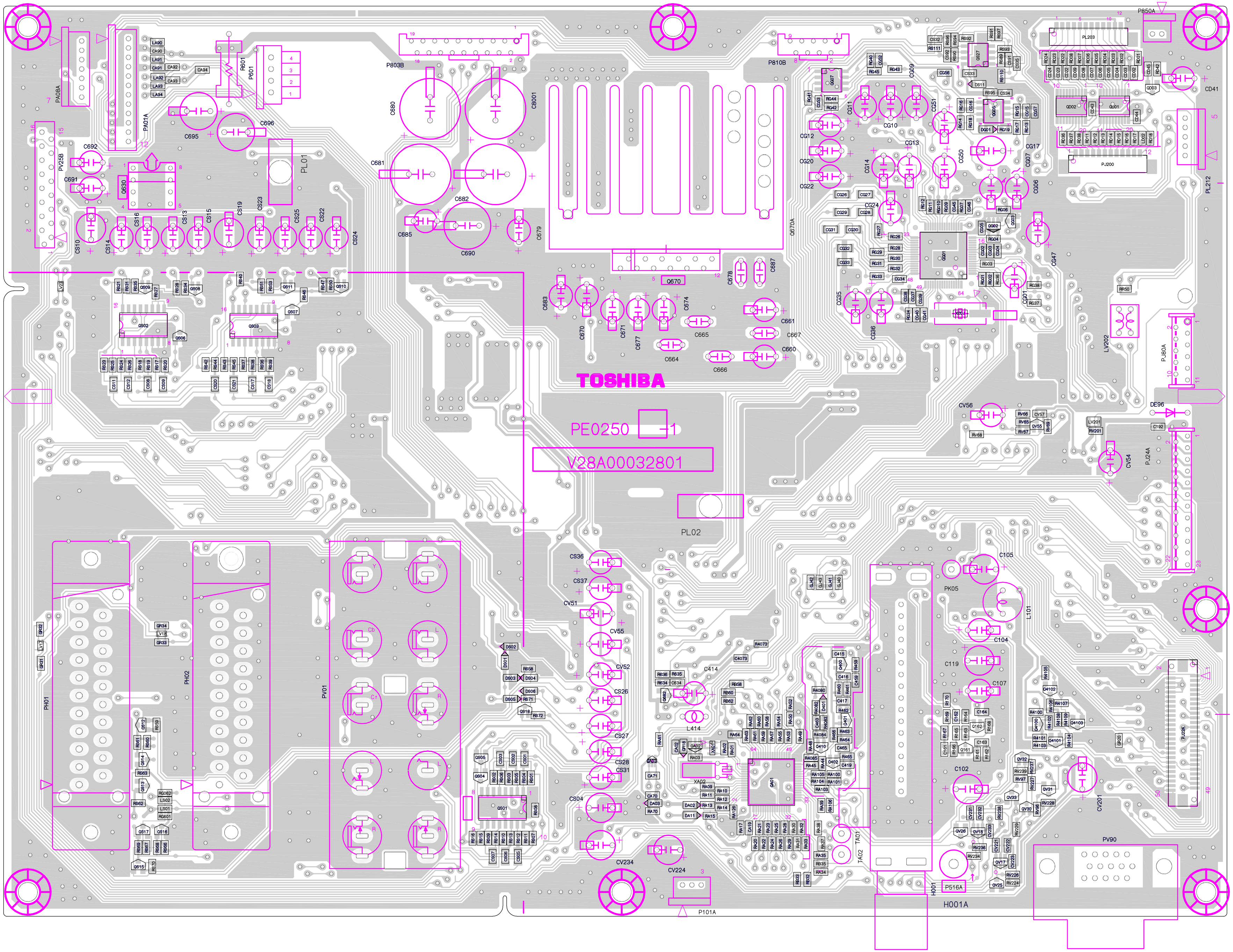

P804A
P805A
PG04
D883A
L883
C883
P806A
P807A
DE72
CE85
ZE72
CE82
B
RE04
FE01
250V F3.15AL/T3.15AL
CE14
PG03
R899
GAP
P805B
P801A
CE13
CE12
CE11
LE06
RE03
CE10
CE05
CE04
DE02
DE01
DE03
R801
C801
D899
F801
T6.3A L/250V
LE11
QE01
CE17
RE29
RE18
RE12
DE08
LE07
CE09
DE14
DE16
DE75
DE75A
ZE75
TE62
DE05
RE23
RE13
QE01A
DE15
CE07
DE07
CE21
CE24
RE19
RE15
DE06
DE09
CE16
CE29
RE14
CE22
RE16
CE12
CE23
DE17
QE26
QE83
RE46
RE44
RE43
RE39
CE43
RE48
RE38
CAUTION
LIVE AREA
D884
D883
D885
L878
L876
L875
D886
L874
C889
L890
C888
Z889
Q883
R890
C890
R874
R873
R872
T862
C813
R816
C899
Q826
C816
D813
R821
L805
L803
F802
R817
C804
C827
C825
C815
C817
C824
C819
250V F3.15AL
R827
Q801
Q801A
D812
D811
C820
R805
D806
D805
R815
R809
D810
D809
R806
R808
R812
R814
R803
R807
R813
C821
C822
L804
R828
C823
C803
C826
R853
Q851
D852
R854
Q852
R869
SR81
C810
L807
L806
C8110
C806
D801
D801A
C805
L801
TOSHIBA
R-1786
V28A00033000
T801
T802
C802
L802

U02A LOW_B [Bottom] (PE0253)

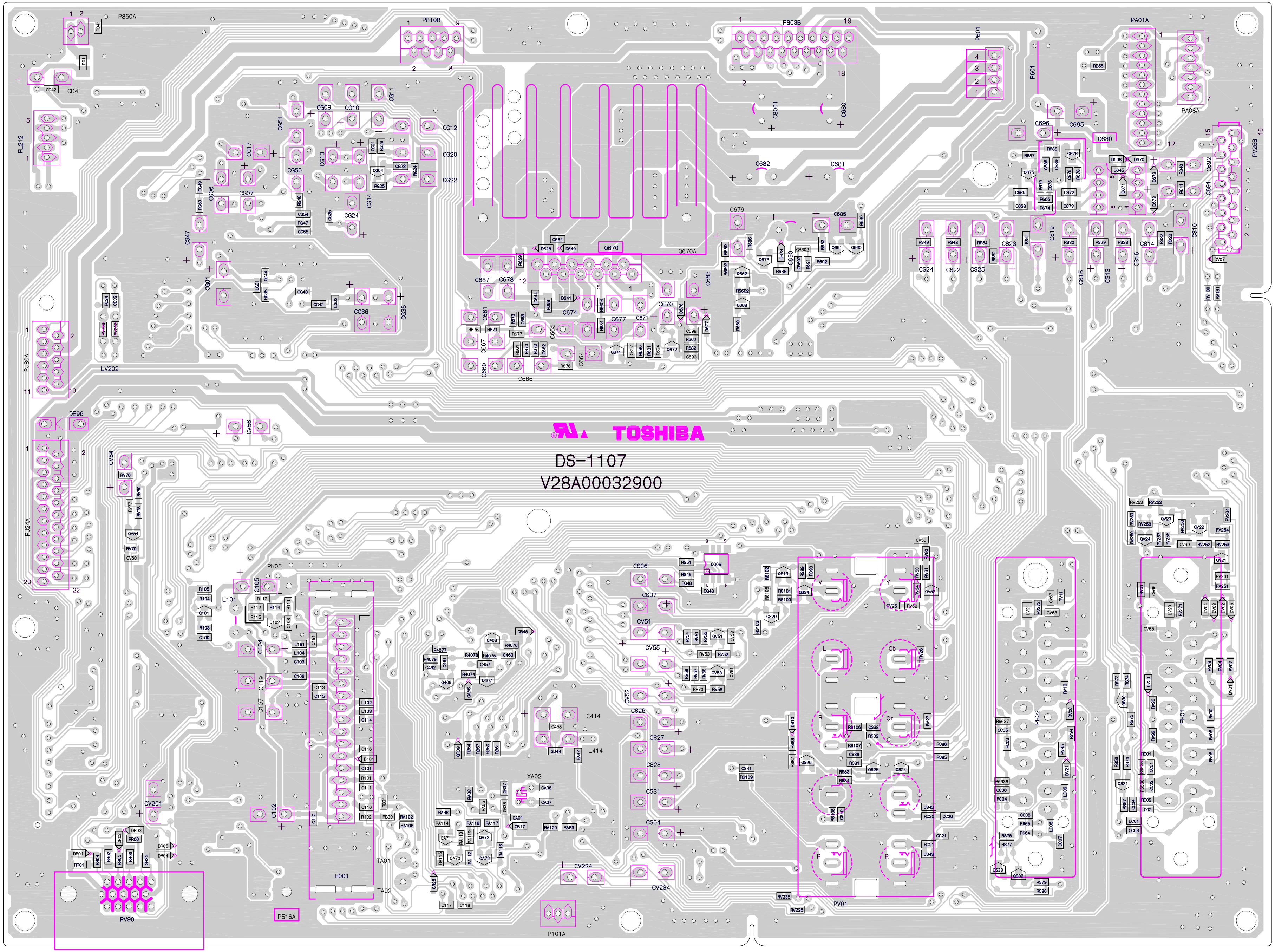


TOSHIBA
V28A000331A0
CCP-6400S
DE42
RE42
CE41
QE40A
DE44
LE42
QE40
LE41
ZE41
DE43
RE41
CE200
QE20
LE200
LE202
LE201
DE200
CE201
DE201
CE53A
QE53
CE53
DE53
P808B
12V_AU
GND
5V_AU
5V_AU
GND
GND
QE95
DE950
CE950
QE90
DE900
CE900
LE900
QE57
DE573
DE571
CE571
LE571
QE500
DE503
CE501
LE501
28.5V_AUDIO
AUDIO_GND
GND
GND
POWER_DB
AC_DETECT
POWER_SIG
5V2
GND
P803B
LE800
CE730
LE801
CE800
QE80
DE801
LE802
CE807
ZE730
QE730
QE73
QE70
DE700
CE700
LE700
CE31
DE31
RE33
DE32
DE33
CE552
QE55
P807B
P806B
5V1
GND
POWER_SIG
AUDIO_VCC
AUDIO_VCC
GND_A
GND_A
24V_INV
EU_DB_POWER
3.3VD
6VD
P808B
GND
GND
12VD
32V
2.5VD
PG02
P850
P810B
VCC_LCD
VCC_LCD
GND
CE751
CE75A
QE75

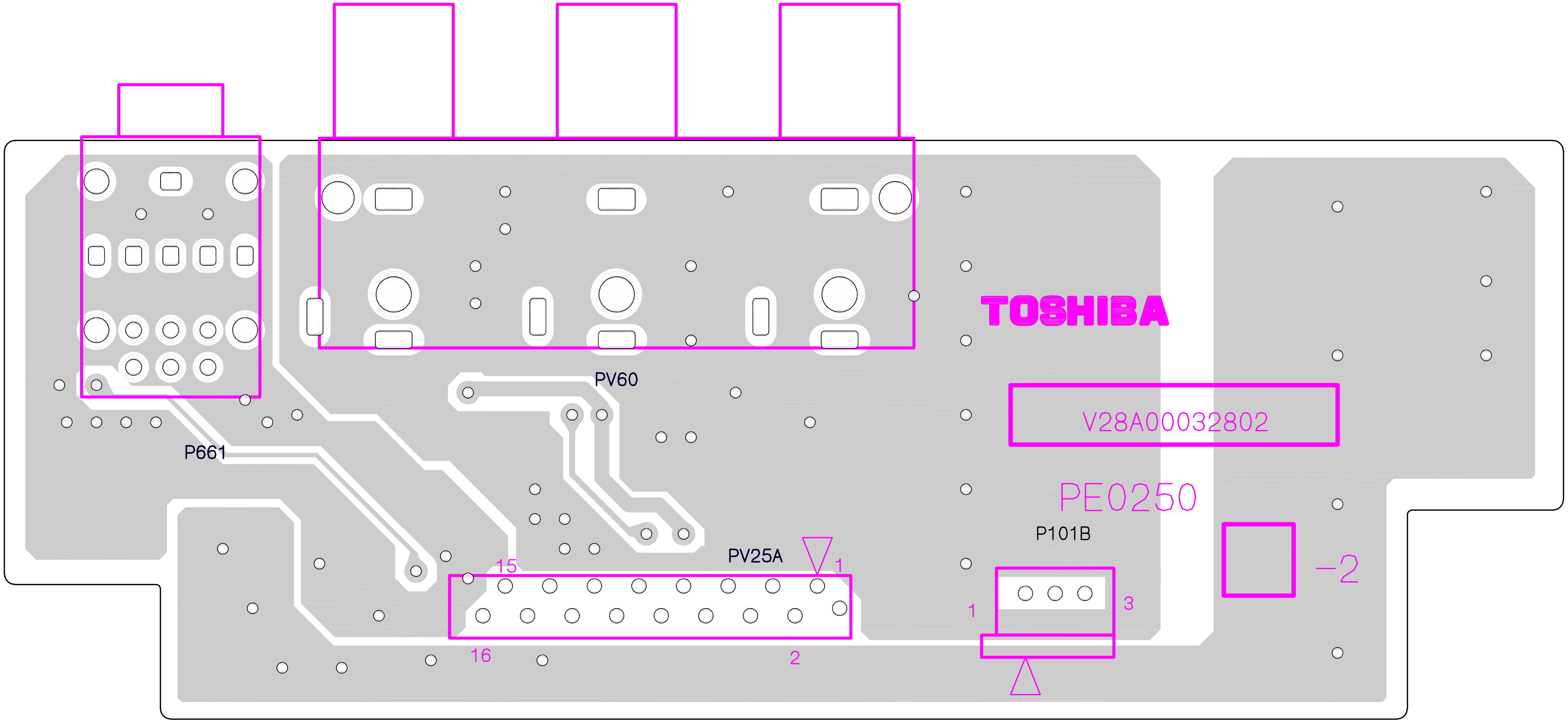
U03A AV_TERMINAL [Top] (PE0250)


TOSHIBA
PE0250
1
V28A00032801
PL02
PL01
P803B
P810B
P850A
PA08A
PA01A
P601
PV25B
PL203
PJ200
PL212
PJ80A
PJ24A
LV202
DE96
CV56
CV54
PH01
PH02
PV01
PV90
P101A
P516A
H001A
H001
TA01
TA02
PK05
L101
L414
C105
C104
C119
C107
C102
CV201
CV224
CV234
CS04
CS27
CS28
CS31
CS26
CV52
CV55
CV51
CS37
CS36
C414
C6001
C680
C681
C682
C685
C690
C679
C692
C691
C695
C696
C683
C670
C671
C677
C674
C664
C665
C666
C660
C661
C667
C678
C687
C670A
Q670
Q630
CS10
CS14
CS16
CS13
CS15
CS19
CS23
CS25
CS22
CS24
CG12
CG20
CG22
CG10
CG13
CG11
CG14
CG24
CG09
CG51
CG50
CG17
CG06
CG07
CG47
CD41
CG35
CG36
Q601
XA02
QA01
PV01
Y
Cb
Cr
L
R

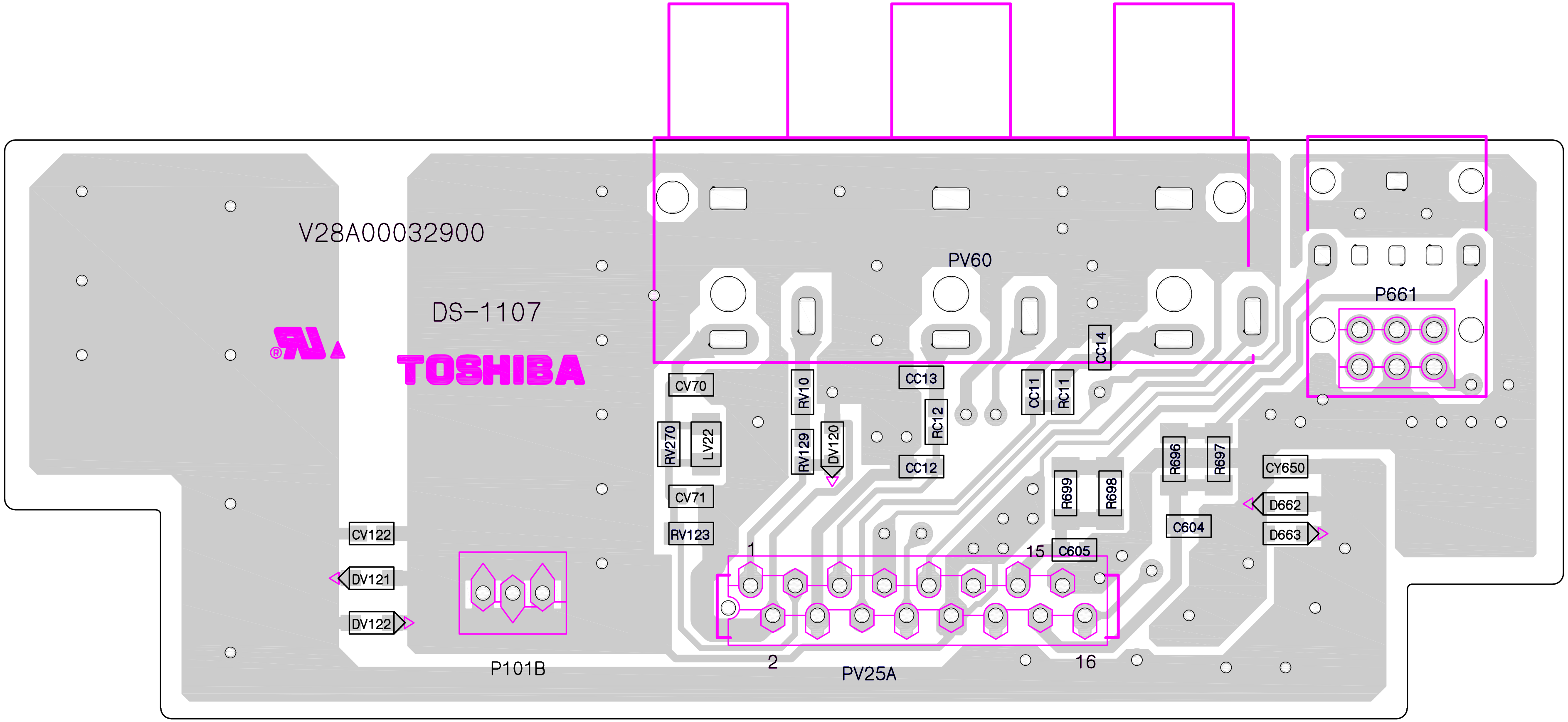
U03A AV_TERMINAL [Bottom] (PE0250)


P850A
P810B
P803B
P601
PA01A
PA08A
PV25B
PL212
PJ80A
PJ24A
LV202
DE96
PK05
L101
H001
TA01
TA02
P516A
PV90
CV201
Q670
Q670A
XA02
C414
L414
CV224
CV234
P101A
PV01
PH02
PH01
TOSHIBA
DS-1107
V28A00032900

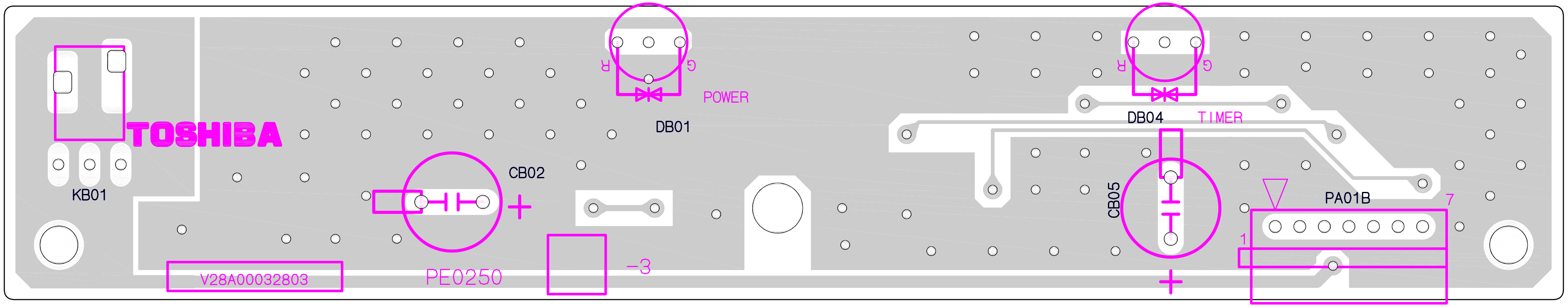
U03B FRONT_AV [Top] (PE0250)


TOSHIBA
PV60
P661
V28A00032802
PE0250
P101B
PV25A
15
1
16
2
1
3
-2

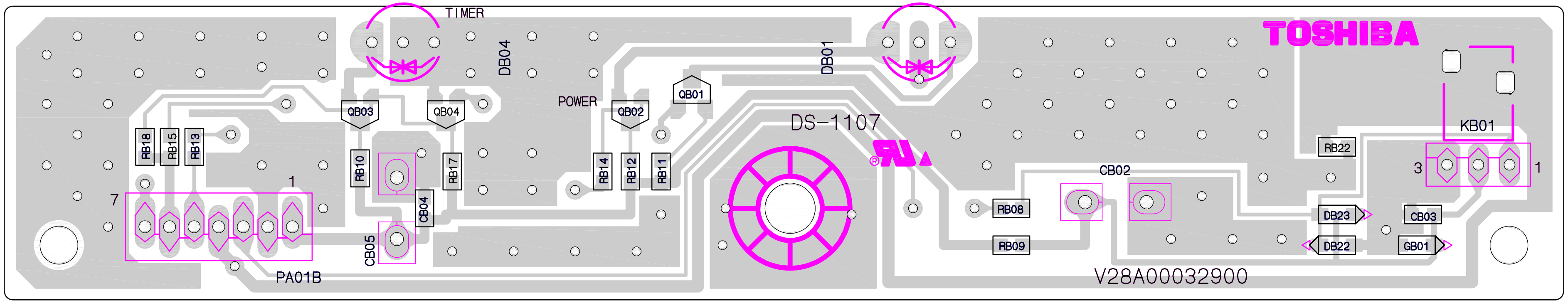
U03B FRONT_AV [Bottom] (PE0250)


V28A00032900
DS-1107
TOSHIBA
PV60
P661
CV70
RV10
CC13
CC11
RC11
CC14
RC12
RV270
LV22
RV129
DV120
CC12
CV71
RV123
R696
R697
R699
R698
CY650
D662
D663
C604
C605
CV122
DV121
DV122
P101B
1
2
15
16
PV25A

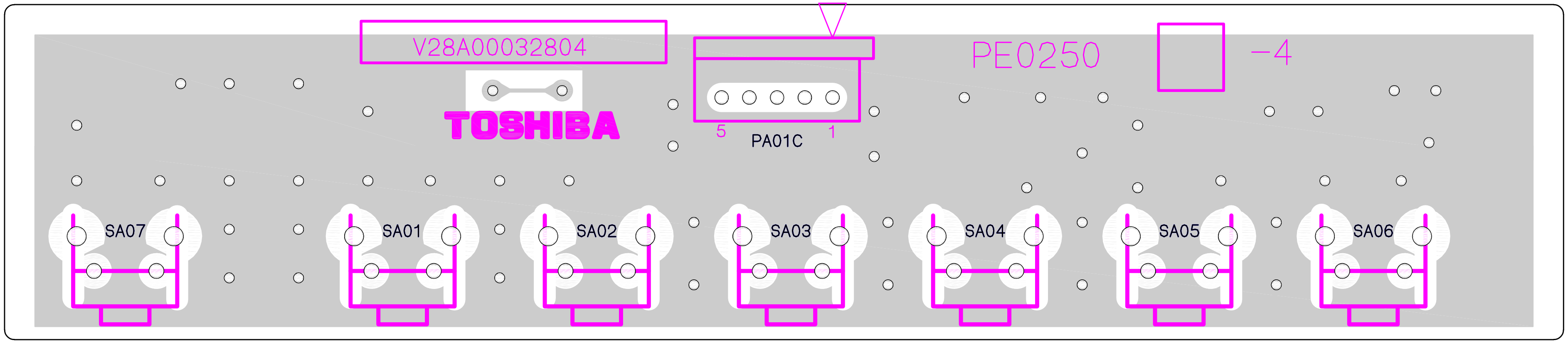
U03C LED [Top] (PE0250)


TOSHIBA
KB01
R
G
POWER
DB01
CB02
V28A00032803
PE0250
-3
R
G
DB04
TIMER
CB05
PA01B
7
1

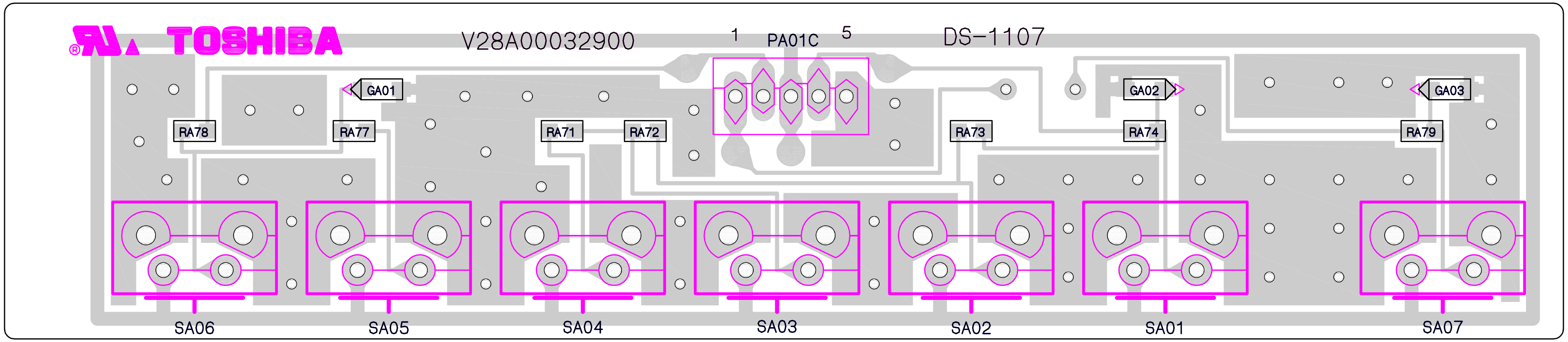
U03C LED [Bottom] (PE0250)


TIMER
DB04
POWER
DB01
QB03
QB04
QB02
QB01
DS-1107
TOSHIBA
KB01
RB22
3
1
RB18
RB15
RB13
RB10
RB17
CB04
CB05
RB14
RB12
RB11
7
1
PA01B
CB02
RB08
RB09
DB23
DB22
CB03
GB01
V28A00032900

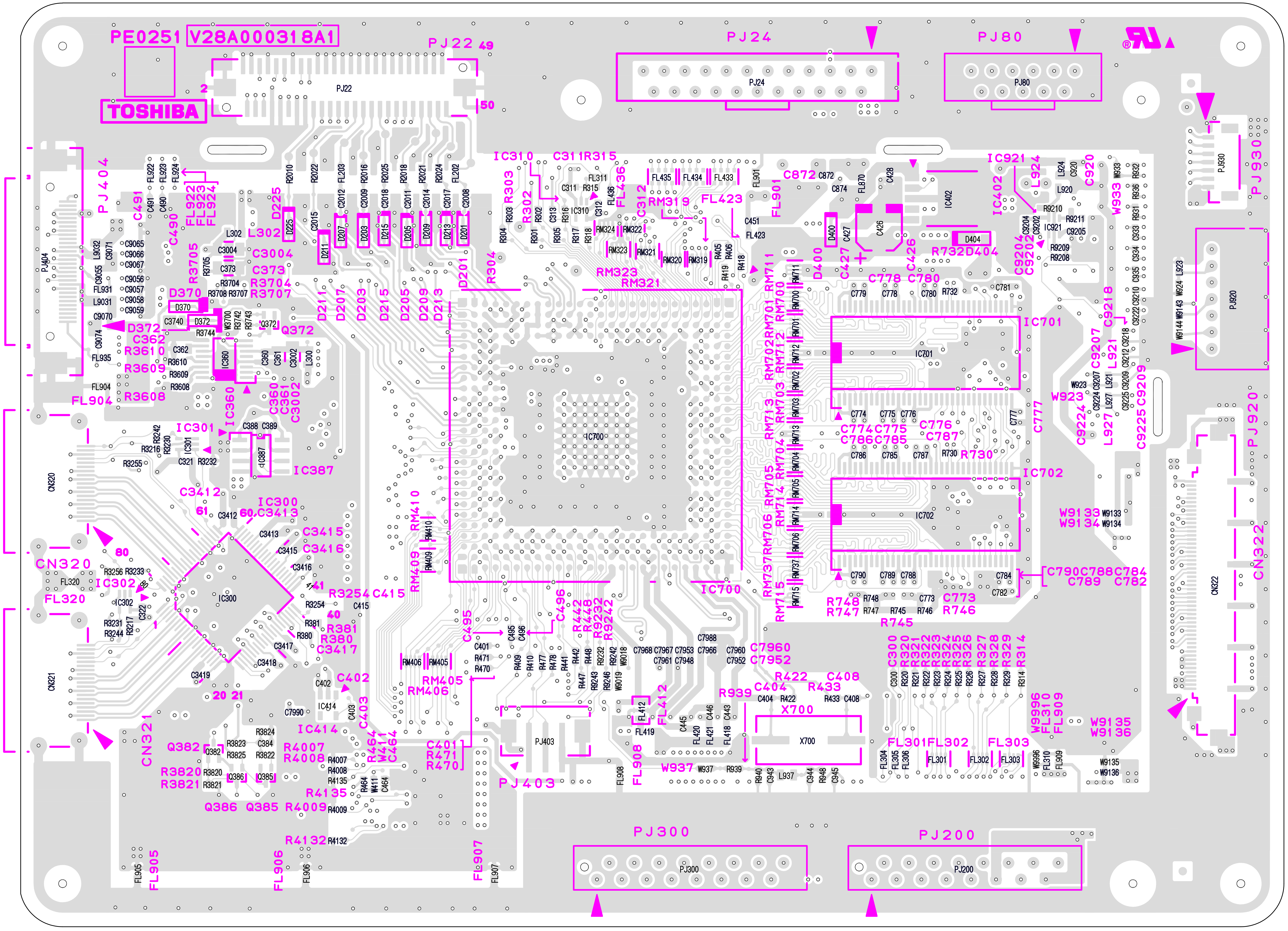
U03D KEY [Top] (PE0250)


V28A00032804
TOSHIBA
5
PA01C
1
PE0250
-4
SA07
SA01
SA02
SA03
SA04
SA05
SA06

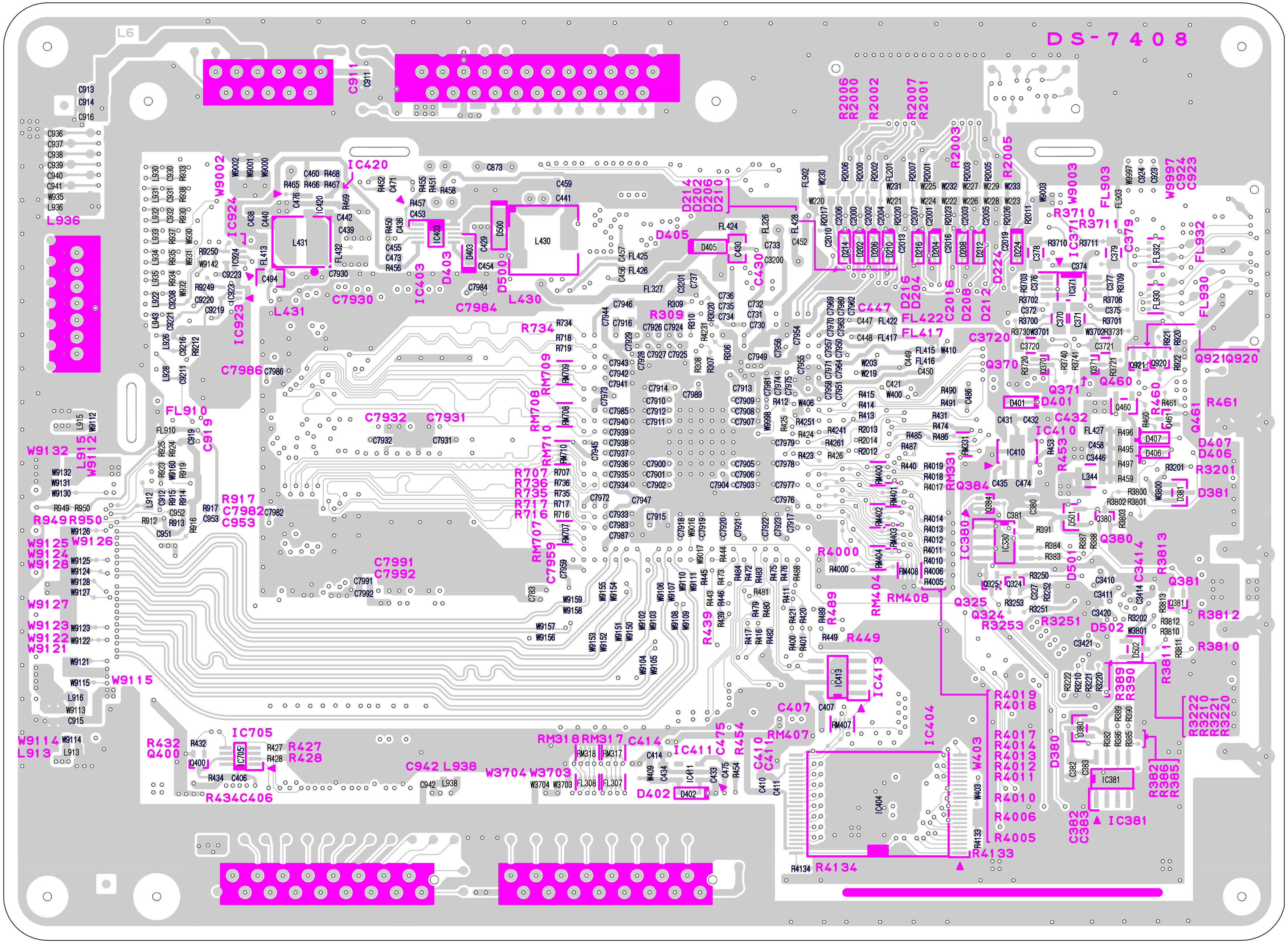
U03D KEY [Bottom] (PE0250)


TOSHIBA
V28A00032900
1
PA01C
5
DS-1107
GA01
GA02
GA03
RA78
RA77
RA71
RA72
RA73
RA74
RA79
SA06
SA05
SA04
SA03
SA02
SA01
SA07

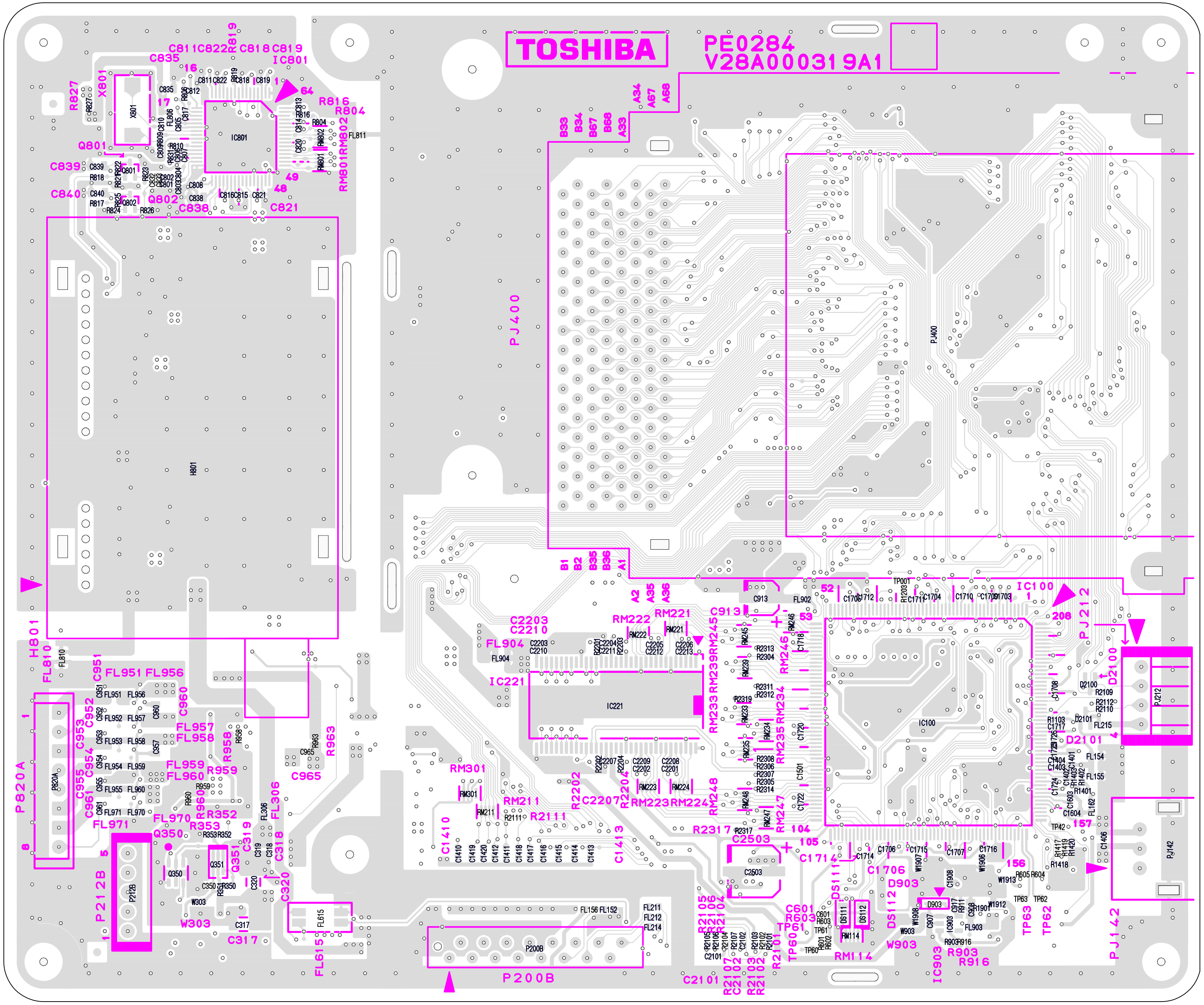
U04AS SIGNAL [Top] (PE0251)


PE0251
V28A000318A1
TOSHIBA
PJ22
49
2
50
PJ24
PJ80
PJ930
PJ404
C491
C490
FL922
FL923
FL924
D225
L302
C3004
C373
R3705
R3704
R3707
D370
D372
C362
R3610
R3609
R3608
FL904
Q372
IC360
C360
C361
C3002
D211
D207
D203
D215
D205
D209
D213
D201
R304
IC310
C311
R315
FL436
R303
R302
C312
RM319
FL423
FL901
C872
RM323
RM321
IC921
L924
C920
IC402
W933
D400
C427
C426
R732
D404
C778
C780
C9204
C9202
C9218
C9207
L921
W923
C9224
L927
C9225
C9209
PJ920
IC701
C774
C775
C776
C786
C785
C787
R730
C777
IC702
W9133
W9134
C790
C788
C784
C789
C782
CN322
R748
R747
C773
R746
R745
IC301
IC387
C3412
IC300
C3413
C3415
C3416
61
60
80
41
40
CN320
FL320
IC302
R3254
C415
R381
R380
C3417
C402
20 21
RM410
RM409
IC700
RM711
RM701
RM700
RM702
RM712
RM703
RM713
RM704
RM705
RM714
RM706
RM737
RM715
C495
C496
R442
R448
R9232
R9242
C7960
C7952
R422
C408
R939
C404
R433
X700
C300
R320
R321
R322
R323
R324
R325
R326
R327
R328
R329
R314
RM405
RM406
C401
R471
R470
FL412
FL908
W937
PJ403
W9996
FL310
FL909
W9135
W9136
FL301
FL302
FL303
CN321
Q382
R4007
R4008
R3820
R3821
IC414
C403
R464
W411
C464
R4135
Q386
Q385
R4009
R4132
FL905
FL906
FL907
PJ300
PJ200

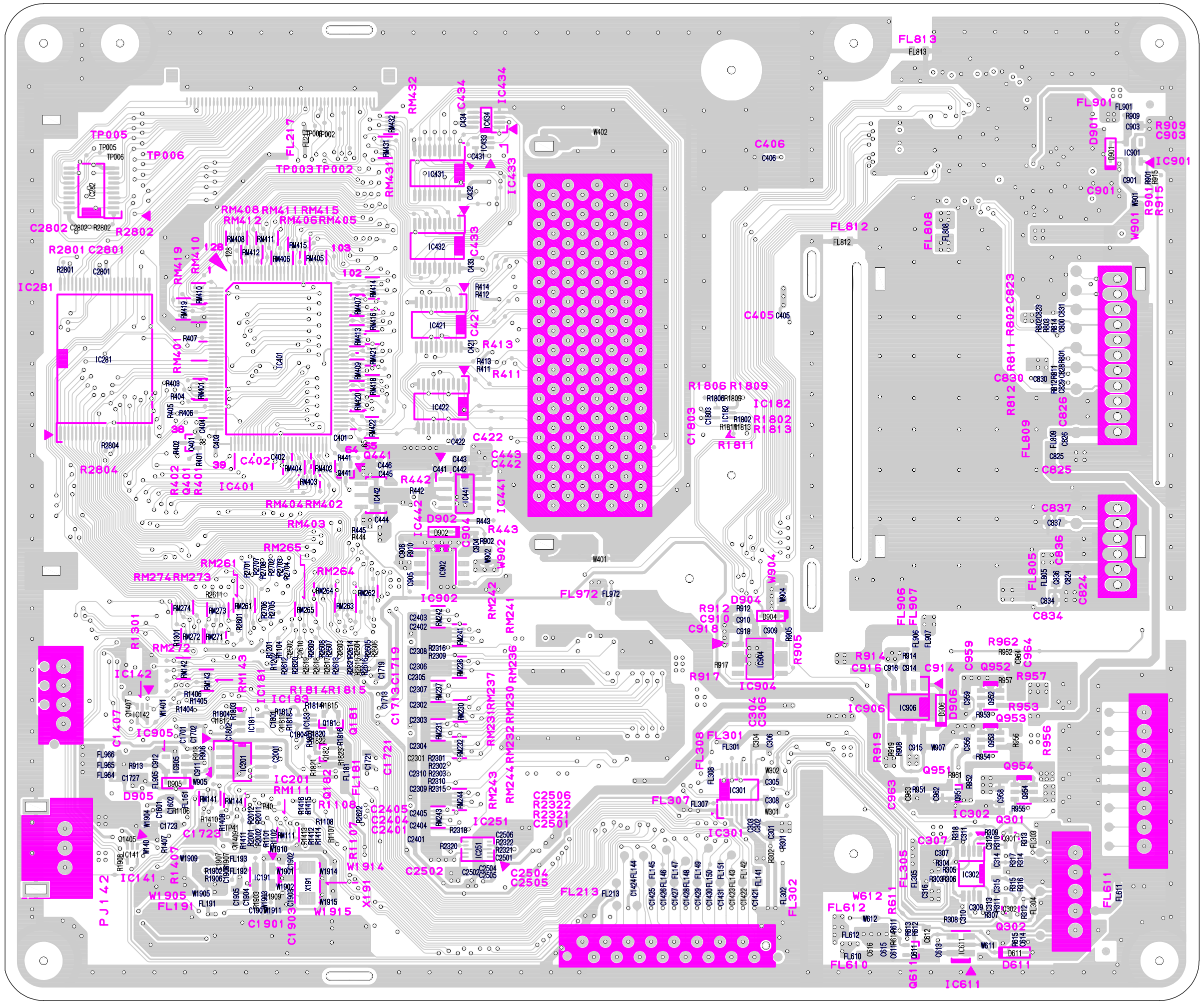
U04AS SIGNAL [Bottom] (PE0251)


DS-7408
L6
C911
R2006
R2000
R2002
R2007
R2001
R2003
R2005
IC420
W9002
IC924
L936
W9003
FL903
W9997
C924
C923
R3710
R3711
IC371
C379
FL932
D214
D202
D206
D210
D405
C430
D403
D500
IC403
C7930
C7984
L430
L431
IC923
R309
C447
FL422
FL417
D216
D204
C2016
D208
D212
D224
C3720
FL930
Q921
Q920
R734
RM709
RM708
C7986
FL910
C919
L915
W9112
W9132
C7932
C7931
Q370
Q371
Q460
R460
R461
Q461
D401
C432
IC410
R453
D407
D406
R3201
D381
RM710
R707
R736
R735
R717
R716
RM707
R917
C7982
C953
R949
R950
W9125
W9126
W9124
W9128
C7959
C7991
C7992
RM331
Q384
IC380
R4000
D501
Q380
C3414
R3813
Q381
R3812
RM404
RM408
Q325
Q324
R3253
R3251
D502
R3810
R489
R439
R449
W9127
W9123
W9122
W9121
W9115
IC413
C407
R3811
R389
R390
R4019
R4018
R3222
R3210
R3221
R3220
RM407
IC404
W403
R4017
R4014
R4013
R4012
R4011
D380
R4010
R4006
R4005
R4133
R4134
C382
C383
IC381
R382
R386
R385
W9114
L913
R432
Q400
IC705
R427
R428
R434
C406
C942
L938
W3704
W3703
RM318
RM317
C414
IC411
C475
R454
C410
C411
D402

U05A EU_DIGITAL [Top] (PE0284)


TOSHIBA
PE0284
V28A000319A1
IC801
X801
R827
Q801
C839
C840
Q802
C838
C821
C835
C811
C822
R819
C818
C819
R816
R804
RM801
RM802
H801
PJ400
IC100
PJ212
D2100
D2101
PJ142
IC221
C2203
C2210
FL904
RM222
RM221
C913
RM301
RM211
R2111
R2202
C2207
R2204
RM223
RM224
RM248
R2317
C2503
C1706
C1714
D903
DS111
DS112
C601
R603
TP61
TP60
RM114
W903
IC903
R903
R916
TP63
TP62
C2101
P200B
FL615
C317
C319
C318
C320
W303
Q350
Q351
R353
R352
FL970
FL971
P212B
P820A
FL810
C951
FL951
FL956
C952
C953
C954
C955
C961
FL957
FL958
FL959
FL960
R958
R959
R960
C960
C963
R963
C965
FL306
C1410
C1413
RM233
RM239
RM245
RM246
RM234
RM235
RM247
157
156
208
53
52
105
104
1
16
17
64
49
48

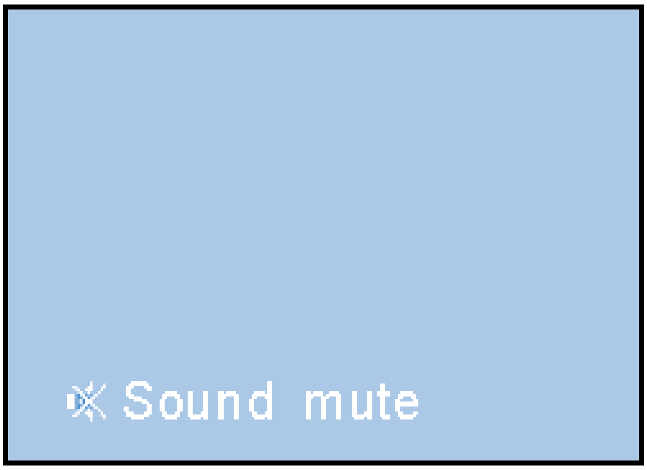
U05A EU_DIGITAL [Bottom] (PE0284)


TP005
TP006
C2802
R2802
R2801 C2801
IC281
R2804
FL217
TP003 TP002
RM432
C434
IC434
IC433
RM431
RM408 RM411 RM415
RM412 RM406 RM405
RM419
RM410
128
103
102
RM401
R402
Q401
R401
C402
IC401
RM404 RM402
RM403
C422
R413
R411
C443
C442
R442
IC441
IC442
D902
R443
W902
RM265
RM261
RM274 RM273
RM264
IC902
RM242
RM241
RM272
R1301
IC142
RM143
IC181
R1814 R1815
IC183
C1713 C1719
C1407
IC905
D905
IC201
RM111
R1108
C1723
C2405
C2404
C2401
IC251
C2502
C2504
C2505
C2506
R2322
R2321
C2501
RM231 RM237
RM232 RM230 RM236
RM244
RM243
IC141
R1407
W1905
FL191
C1901
C1903
W1914
W1915
X191
R1107
Q181
Q182
PJ142
C406
C405
FL813
FL901
D901
R909
C903
IC901
C901
W901
R901
R915
FL812
FL808
R1806 R1809
IC182
R1802
R1813
R1811
C1803
C830
R812
R811 R802
C823
FL809
C826
C825
C837
C836
FL805
C824
C834
FL972
R912
D904
C910
C918
W904
R905
IC904
R917
R914
C916
C914
C959
R962
C954
Q952
R957
FL906
FL907
IC906
D906
R953
Q953
R956
C304
C306
FL301
FL308
FL307
IC301
R919
C963
Q951
Q954
IC302
Q301
C307
FL305
FL302
FL213
W612
FL612
R611
FL610
Q611
IC611
Q302
D611
FL611

ADJUSTMENT

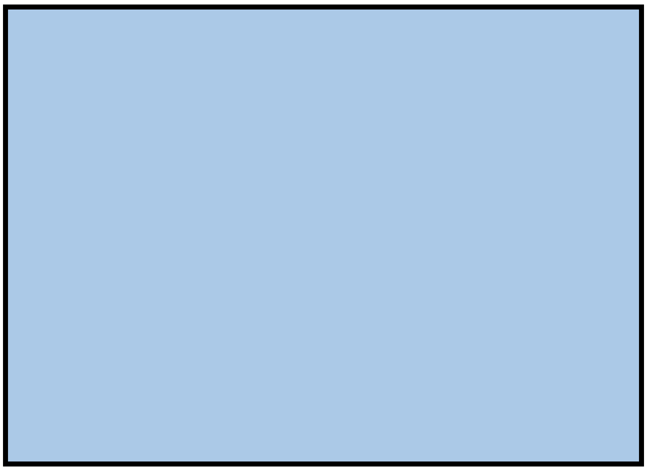
Service Mode

Entering to Service Mode



1. Set VOLUME to minimum and press 🔇 button once on remote control.

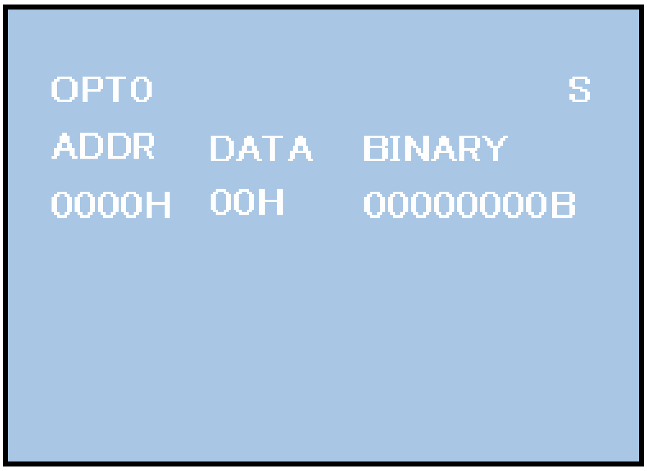
↓



2. Press 🔇 button again and hold button down.

↓

Service Mode display


OPTO S

ADDR DATA BINARY

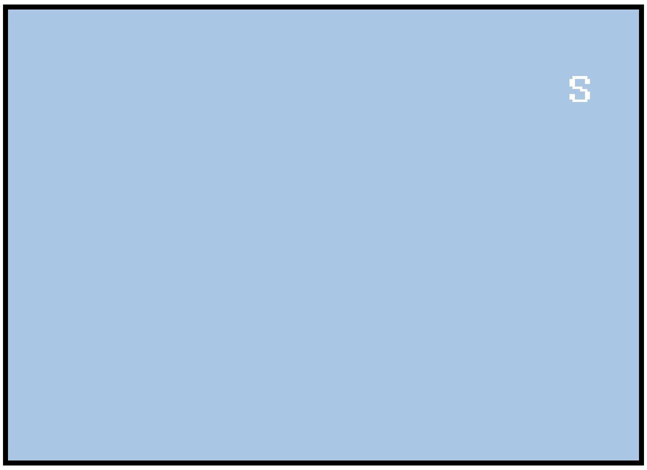
0000H 00H 00000000B

3. While holding the 🔇 button, press MENU button on TV set.

Displaying the Adjustment Menu

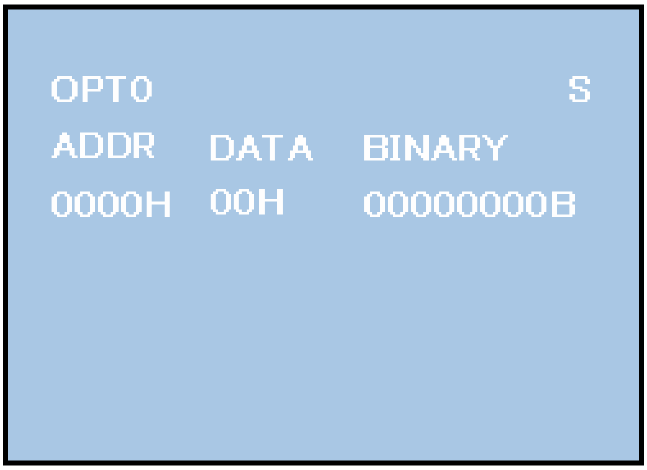
Press MENU button on TV.

Service Mode



Press ↑ ↓ Press

Adjustment Mode



```
OPTO                        S
ADDR    DATA    BINARY
0000H   00H     00000000B
```

Key Function in the Service Mode

The following key entry during display of adjustment menu provides special functions.

CAUTION: Never try to perform initialization unless you have changed the memory IC.

Test signal selection	⊕ button (on remote control)
Selection of the adjustment items	CH ▲/▼ (on TV or remote control)
Change of the data value	Volume ◿ +/- (on TV or remote control)
Adjustment menu mode ON/OFF	MENU button (on TV)
Initialization of the memory (QA02)	CALL + CH ▲ button on TV
Reset the count of operating protect circuit to "00"	CALL + CH ▼ button on TV
Turn off I2C bus communication	CALL + Volume ◿ + button on TV
"RCUT" selection	1 button
"GCUT" selection	2 button
"BCUT" selection	3 button
"CNTX" selection	4 button
"COLC" selection	5 button

"UVTT" selection	6 button
Automatic A/D Adjustment (PC, Component, Composite (PAL, NTSC))	7 button
Self diagnostic display ON/OFF	9 button

Selecting the Adjusting Item

Every pressing of CH ▲ button in the service mode changes the adjustment items in the order of table below. (▼ button for reverse order)

SETTING & ADJUSTING DATA

[SERVICE MODE]

ADJUSTING ITEMS AND DATA IN THE SERVICE MODE:

Note:

The image system data of RCUT-BDRV is different by each image format.
The PAL value is indicated in the table.
Never adjust H.POS and V.POS except PAL/WIDE mode.

Item	Name of adjustment
RCUT	R CUT OFF
GCUT	G CUT OFF
BCUT	B CUT OFF
RDRV	R DRIVE
GDRV	G DRIVE

BDRV	B DRIVE
BRTC	BRIGHTNESS CENTER
COLC	COLOR CENTER
UVTT	BASE BAND TINT
CNTX	CONTRAST MAX
VOLUX	MAX VOLUME LIMITED
PLLW0	PLL WAIT TIME
PLLW1	PLL WAIT TIME
PLLW2	PLL WAIT TIME
PLLW3	PLL WAIT TIME
PLLW4	PLL WAIT TIME
PLLW5	PLL WAIT TIME
OPT1	TV SET OPTION 1
OPT2	TV SET OPTION 2
OPT3	TV SET OPTION 3
OPT4	TV SET OPTION 4 (PANEL OPT DATA FOR VENDOR)
OPT5	TV SET OPTION 5 (PANEL OPT DATA FOR SIZE)
OPT6	TV SET OPTION 6 (HOTEL MODE)
OPT7	TV SET OPTION 7 (HOTEL MODE)
OPT8	TV SET OPTION 8 (HOTEL MODE)
TVOP	TV SET OPTION
ID	MODEL ID
BDWID	BORDER WIDTH FOR EXACT SCAN
BDHIT	BORDER HEIGHT FOR EXACT SCAN
FPLG	MASK_ENABLE (SD/HD)
FPLG2	Channel LOGO Vector Clip SW (SD)
FPLG3	Channel LOGO Vector Clip SW (HD)

Factory preset data will be loaded after setting Model ID data.
(Refer to Initialization of Memory Data of QA02 and setting data of signal board.)

Adjusting the Data

Pressing of VOLUME ◢ +/- button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

I2C Bus Off

Turn off I2C communication between IC700 and IC400.

1) Press and hold the CALL button on the remote control, then press the Volume ◢ + button on the TV.

2) Display "BUS Off" OSD.

3) I2C communication turned off.

Note:

To return Bus on status, press and hold the CALL button on the remote control, then press the Volume ◢ + button on the TV again. TV will be turned off and automatically turned on, then status will be Bus On.

Setting TVOP

Enter to service mode and select menu of TVOP by pressing P▲ or P▼ during display of adjustment menu. After selecting TVOP, press ◢+ or ◢ - to set I2C check function to disable or enable as below.

TVOP	FUNCTION DESCRIPTION	1	0 (Normal)

D5 (bit5)	I2C check between IC700 and IC400. (WDT)	Disable	Enable

Setting Panel Option Data

Panel option data is subject to OP4 and OP5.
Enter to service mode and select menu of OPT4 or OPT5 by pressing P▲ or P▼ during display of adjustment menu. After selecting OPT4 or OPT5, press ◢+ or ◢- to set OPT4 or OPT5 value as table below.

Panel option data

Series		Model name	Panel vendor	OPT4 value	OPT5 value
X3000	EU Digital/Ready	37X3000P/3030D	LPL	0x81	0x06
		42X3000P/3030D	CMO	0x83	0x07

OP4

Ex. OPT4 value 0x05 indicates that panel vendor is AUO AMVA.

		OPT4							
		D7 (bit7)	D6 (bit6)	D5 (bit5)	D4 (bit4)	D3 (bit3)	D2 (bit2)	D1 (bit1)	D0 (bit0)
Panel vendor	FULL HD LPL	1	-	-	-	0	0	0	1
	FULL HD CMO	1	-	-	-	0	0	1	1

OP5

Ex. OPT5 value 0x05 indicates that panel size is 32.

	OPT5

		D7 (bit7)	**D6 (bit6)**	**D5 (bit5)**	**D4 (bit4)**	**D3 (bit3)**	**D2 (bit2)**	**D1 (bit1)**	**D0 (bit0)**
Size	32	-	-	-	-	0	1	0	1
	37	-	-	-	-	0	1	1	0
	42	-	-	-	-	0	1	1	1

Convert from Bit (Binary) to Hex

The table for converting from bit (D7-D0) to hex (0x**).

		BIT (Binary)			
High nibble		**D7**	**D6**	**D5**	**D4**
Low nibble		**D3**	**D2**	**D1**	**D0**
HEX	**0**	0	0	0	0
	1	0	0	0	**1**
	2	0	0	**1**	0
	3	0	0	**1**	**1**
	4	0	**1**	0	0
	5	0	**1**	0	**1**
	6	0	**1**	**1**	0
	7	0	**1**	**1**	**1**
	8	**1**	0	0	0
	9	**1**	0	0	**1**
	A	**1**	0	**1**	0
	B	**1**	0	**1**	**1**
	C	**1**	**1**	0	0
	D	**1**	**1**	0	**1**
	E	**1**	**1**	**1**	0

	F	**1**	**1**	**1**	**1**

E.g. If Bit D7-0 = 0**101 1**010, Hex data is 0x**5A**.

Exit from Service Mode

Pressing POWER button to turn off the TV once.

Initialization of Memory Data of QA02 and Setting Data of Signal Unit

After replacing QA02 or signal board, the following initialization is required.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced. Whenever using new signal board to the set, setting the Model ID data according to Panel option data.

1) Enter the service mode.

2) Select menu of ID by pressing P▲ or P▼ during display of adjustment menu in the service mode.

3) Change ID data into MODEL ID to initialize by pressing ◿ + or ◿ -., refer to table below.

4) Press and hold the CALL button on the remote control, then press the CHANNEL ▲ button on the TV.

5) Initialization progress dialog including model name and panel vendor is shown.
Progress status is "WRITING".

6) Progress status is changed "OK" and power cycle (automatically). Then QA02 initialization has been completed.

7) Enter the service mode and select version check mode. Confirm if model name and model id set is correct. If not, repeat steps 1) to 6).

Note:

In case initialization by setting wrong MODEL ID is done, there is a possibility of abnormal display.

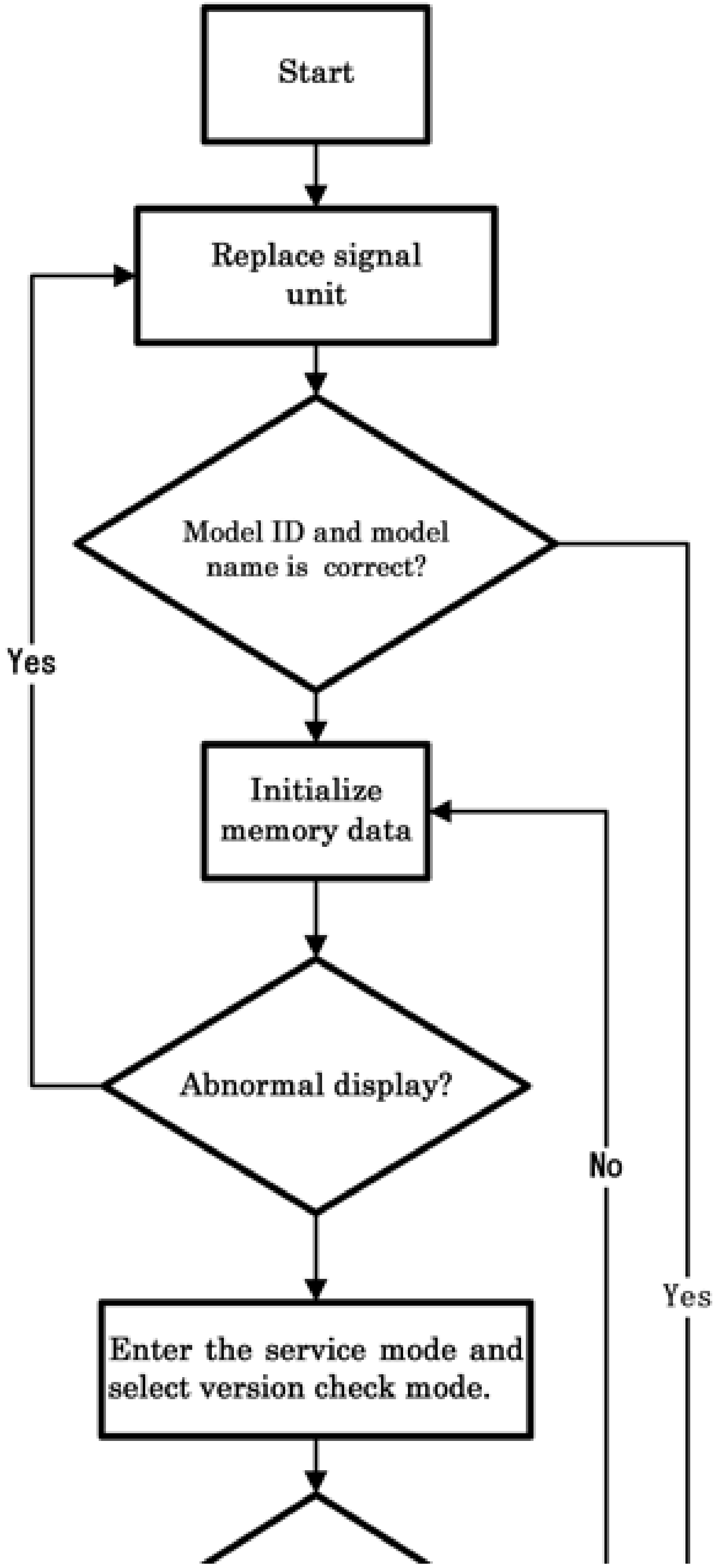
8) Set I2C check function of TVOP to enable.

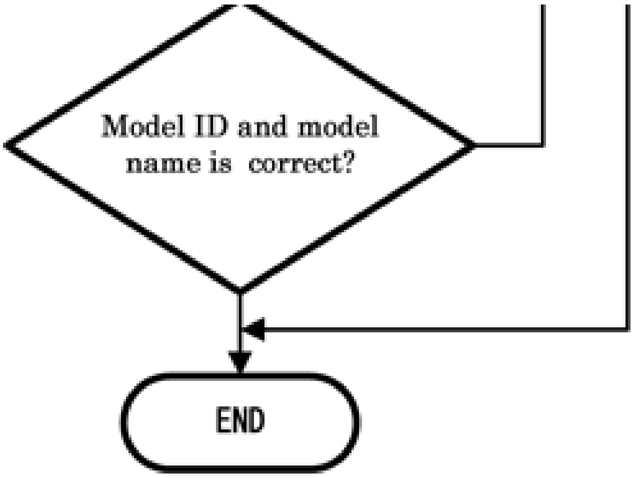
9) Check the picture carefully. If necessary, adjust any adjustment item above.
Perform "Auto tune" on the owner's manual.

MODEL ID (HEX)	Model name	Panel vendor
0x13	37X3000P	LPL
0x14	42X3000P	CMO
0x15	37X3030D	LPL
0x16	42X3030D	CMO
0x17		
0x18		
0x19		
0x20		
0x21		
0x22		
0x23		
0x24		
0x25		
0x26		
0x27		
0x28		
0x29		
0x30		
0x31		

0x32		
0x33		

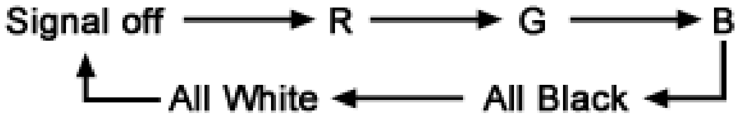
Initializing Data setting flowchart after replacing the Signal Unit


Start
Replace signal unit
Model ID and model name is correct?
Yes
Initialize memory data
Abnormal display?
No
Yes
Enter the service mode and select version check mode.


Model ID and model name is correct?
END

Test Signal Selection

Every pressing of → button on the remote control changes the built-in test patterns on screen as described below in Service Mode.


Signal off
R
G
B
All Black
All White

Picture	Signal
🟥	Red raster
🟩	Green raster

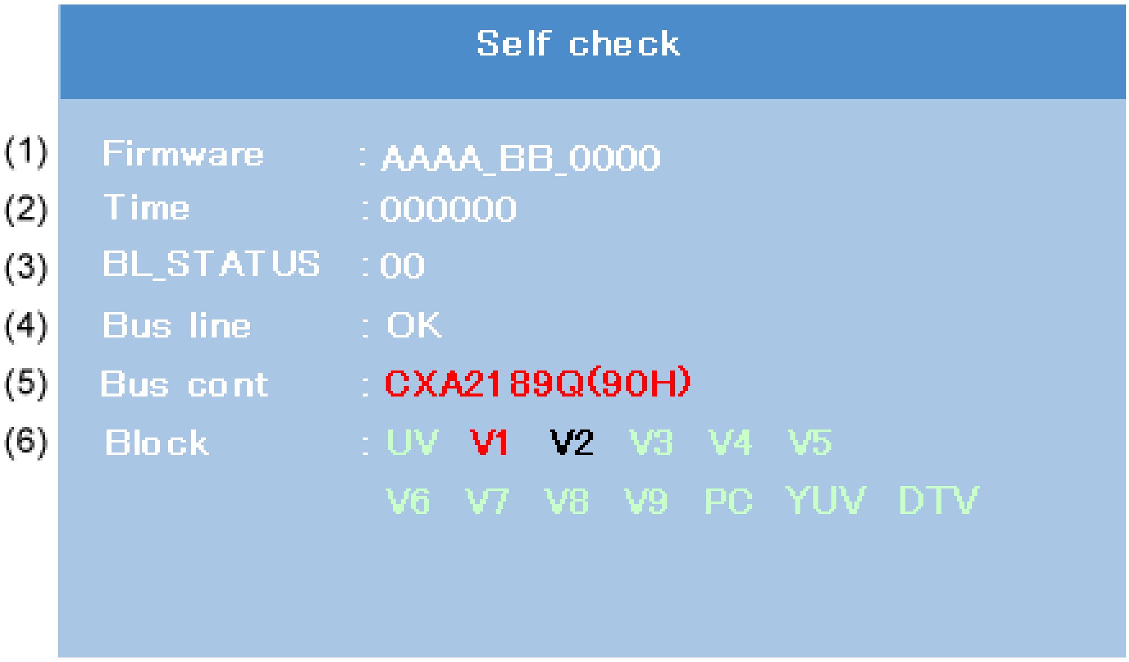
🟦	Blue raster
⬛	All Black
⬜	All White

Self Diagnostic Function

1. Press "9" button on remote control during display of adjustment menu in the service mode. The diagnosis will begin to check if interface among IC's is executed properly.

2. During diagnosis, the following displays are shown.

* Self check display and Item are subject to the models.



Self check

(1) Firmware : AAAA_BB_0000

(2) Time : 000000

(3) BL_STATUS : 00

(4) Bus line : OK

(5) Bus cont : CXA2189Q(90H)

(6) Block : UV V1 V2 V3 V4 V5
V6 V7 V8 V9 PC YUV DTV

(1) Firmware :
Version information of microprocessor
Series name (AAAA) and market area (BB) and software program version (0000)

(2) Time : Total hour of turn the TV on. (Unit : H)

(3) BL_STATUS :
Counter for saving BackLight on error.
This value is counted till 99 (Decimal).

(4) Bus line : -- "OK" is normal
SCL-GND (Red indication) : SCL-GND short circuit
SDA-GND (Red indication) : SDA-GND short circuit
SCL-SDA (Red indication) : SCL-SDA short circuit

(5) Bus cont : --- "OK" is normal.
NG is abnormal (Red indication).
When the abnormal status is detected, type name of semiconductor is indicated in red colour.

(6) Block

UV : TV reception mode
V1 - V9 : VIDEO 1-9 input mode
PC : PC mode
YUV : YUV mode
DTV : DTV mode

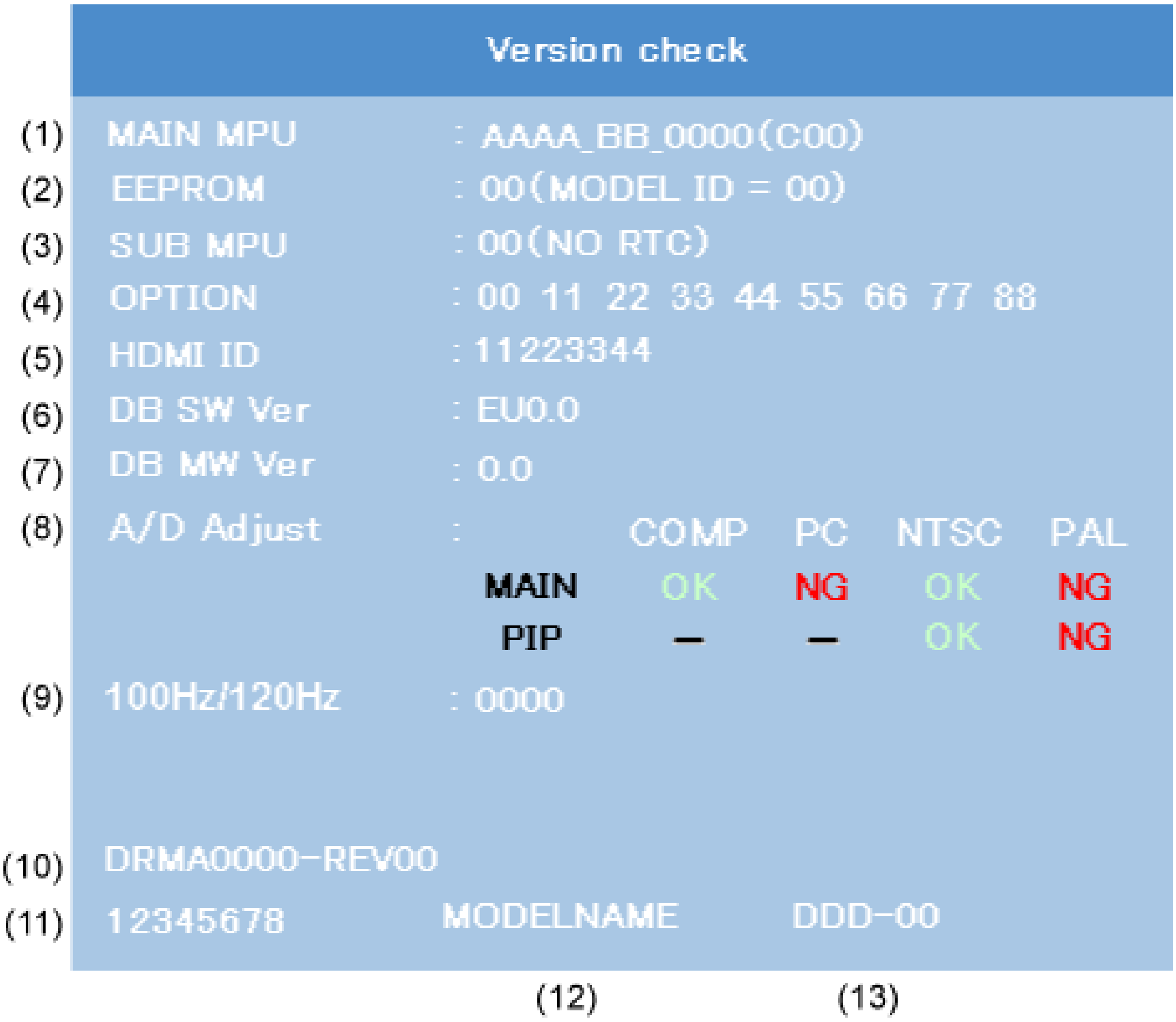
UV	RF
V1	⇥ 1 (SCART (FULL))
V2	⇥ 2 (SCART (S+AV))
V3	⇥ 3 (Component/Composite)
V4	HDMI1
V5	HDMI2
V6	--
V7	--
V8	--
V9	--
PC	PC
YUV	--
DTV	DTV (Digital Only)

Version Check Mode

1. Press "9" button twice on remote control during display of adjustment menu in the service mode. The version of main MPU will be checked.

2. During Version Check, the following displays are shown.

* Version check display and Item are subject to the models.



Version check

MAIN MPU : AAAA_BB_0000(C00)
EEPROM : 00(MODEL ID = 00)
SUB MPU : 00(NO RTC)
OPTION : 00 11 22 33 44 55 66 77 88
HDMI ID : 11223344
DB SW Ver : EU0.0
DB MW Ver : 0.0
A/D Adjust :

	COMP	PC	NTSC	PAL
MAIN	OK	NG	OK	NG
PIP	–	–	OK	NG

100Hz/120Hz : 0000

DRMA0000-REV00
12345678 MODELNAME DDD-00

(1) MAIN MPU :
Version information of microprocessor
Series name and Code Program Version (4 figure number) and OSD Version (2 figure number).

(2) EEPROM :
Version information of EEPROM : Display 1 byte data.

(3) SUB MPU :
Version information of SUB MPU : Display 1 byte data.

(4) OPTION :
Option information : Display six numbers of 1 byte data.

(5) HDMI ID :
HDMI ID information : Display 4 byte data.

(6) SW Ver
Version information of DB software as Toshiba release. (Only digital model.)

(7) MW Ver

Left side is Application and UI version information of DB software. (Only digital model.)
Right side is Firmware (Driver) version information of DB software. (Only digital model.)

(8) A/D Adjust

A/D adjustment item.
--MAIN : It's enable only in double Window model. A/D adjustment status of main picture.
--PIP : It's enable only in double Window model. A/D adjustment status of sub picture.
--COMP : Component input
--PC : PC input
--NTSC : NTSC (60 Hz) SD signal (composite input).
--PAL : PAL (50 Hz) SD signal (composite input).
--OK : A/D adjustment set correctly.
--NG : A/D adjustment set incorrect.
-- : A/D adjustment is not needed. Because its picture format isn't used.

(9) 100 Hz FPGA Software Version

It's enable only in 100 Hz drive panel model.
Upper 2 figure number means function versions of double frequency convert.
Lower 2 figure number means function version of vector complement.

(10) Memory Data Version

Version information of EEPROM.
DRMA**** means model number of EEPROM.
REV** means version of EEPROM.

(11) CD number

CD information (ascii code). : Display 4 byte data.

(12) Model Name

Model name information (ascii code). : Display 7 byte data.

(13) LCD Panel Vendor information display

The following Panel Vendor (DDD) and screen size (00) are displayed.
Example : AUO-32 indicates that Vendor is AUO and Screen Size is 32 inch

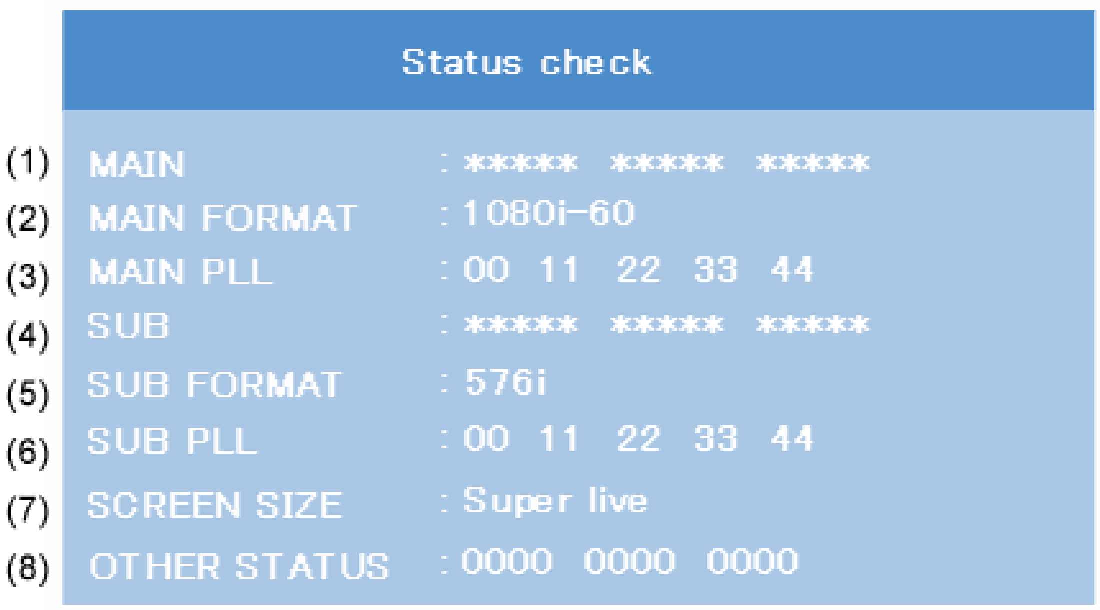
Status Check Mode

1. Press "9" button thrice on remote control during display of adjustment menu in the service mode.

The status of this model will be checked.

2. During Status Check, the following displays are shown.

* Status check display and Item are subject to the models.



```
Status check

(1) MAIN              : *****  *****  *****
(2) MAIN FORMAT       : 1080i-60
(3) MAIN PLL          : 00  11  22  33  44
(4) SUB               : *****  *****  *****
(5) SUB FORMAT        : 576i
(6) SUB PLL           : 00  11  22  33  44
(7) SCREEN SIZE       : Super live
(8) OTHER STATUS      : 0000  0000  0000
```

(1) MAIN :
Main source information :
Display RF position number (0 - 99) on the main screen, or Input Source (EXT1/2/3/HDMI etc.)

(2) MAIN FORMAT :
Display Video and PC format information

(3) MAIN PLL :
Main PLL information : Display 1 byte data at five.

(4) SUB :
Sub source information :
Display RF position number (0 - 99) on the Sub screen, or Input Source (EXT1/2/3/HDMI etc.)
This item displays only Double window model.

(5) SUB FORMAT :
Display Video and PC format information
This item displays only Double window model.

(6) SUB PLL :
Sub PLL information : Display 1 byte data at five.
This item displays only Double window model.

(7) SCREEN SIZE :

Display the screen size as follows.

Exact Scan
Wide
Super Live 2
Cinema 2
4:3
Super Live 1
Cinema 1
Subtitle
14:9

Note:

Exact Scan is shown only for 1080p panel model with video input mode except pc.

(8) OTHER STATUS :

Other status information : Display three numbers of 2 byte data.

Setting Hotel Mode

Enter to service mode and select Hotel Mode menu by pressing P▲ or P▼.
After selecting Hotel Mode, press ⊿+ to enter details setting in Hotel Mode.

To select menu, press P▲ or P▼ and press OK to enter the adjustment menu of table bellow.
To move the cursor in the adjustment, press ⊿+ or ⊿-.

1. By pressing P▲ or P▼, OPT2 setting will change the value either 1 or 0 on selected items as follows;

OP2

OPT2	FUNCTION DESCRIPTION	1	0 (Normal)

D7 (bit7)	- (no use)	-	-
D6 (bit6)	- (no use)	-	-
D5 (bit5)	FRONT Key	Disable	Enable
D4 (bit4)	All keys except input selector key (Video/TV)	Disable	Enable
D3 (bit3)	User remote control operation	Disable (Service mode and Supere User mode may possible to setting only)	Enable
D2 (bit2)	Disable SET UP MENU except language. (tuning SETUP MENU)	Disable (Display the language only)	Enable
D1 (bit1)	Disable SETUP MENU	Disable	Enable
D0 (bit0)	HOTEL Mode	On (Enable the setting of D1 from to D7)	Off (Normal)

VOLUX

Set VOLUX as following.

1) Set speaker volume to 100. (Any value is OK, but 100 is better to check sound level.)

2) Down value of VOLUX until finding suitable sound volume level.

VOLUX	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7) ~ D0 (bit0)	Max Limiter of Volume Control	0x00 ~ 0x7F (Normal: 0x7C)	

OP6

OPT6	FUNCTION DESCRIPTION	1	0 (Normal)

D7 (bit7)	Enable mode that POS or VIDEO program number will be appeared in forced when turn ON the main power	Enable	Disable
D6 (bit6) ~ D0 (bit0)	POS or VIDEO program number	0 ~ 127 [decimal] (Normal: 0) POS number: 0 ~ 99 VIDEO number: 100 ~ 127 (DTV = 100, VIDEO = 101, VIDEO = 102..) 100 is used as ATV when DTV option is disable.	

OP7

OPT7	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	Enable mode that speaker volume will be set in forced when turn ON the main power	Enable	Disable
D6 (bit6) ~ D0 (bit0)	Forced speaker volume	0 ~ 100 [decimal] (Normal: 0) Value above 100 is no effect.	

OP8

OPT8	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7) ~ D3 (bit3)	- (no use)	-	-
D2 (bit2)	Enable mode that picture mode will be set in forced when turn ON the main power	Enable (Display the language only)	Disable
D1 (bit1) ~ D0 (bit0)	Forced picture mode	0 [dec]: Dynamic (mode-1) (Normal) 1 [dec]: Standard (mode-2) 2 [dec]: Mild (mode-3) 3 [dec]: Memory (mode-M)	

LED Indication

The Green and Red LEDs on the TV (at the bottom center of the TV) indicate the TV's status, as described below.

- Red ON (solid) and Green OFF = The TV power cord is plugged in.
- Green ON (solid) and Red ON = The On timer is operating.

	LED Indication	**Condition**	**Solution**
1	Green is OFF; Red blinks continuously at 0.5-second intervals.	Abnormal operation	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.
2	Green is OFF; Red blinks continuously at 1-second intervals.	Abnormal operation of BUS line.	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.

PARTS LIST

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" FOR DIRECT VIEW CTV ONLY, "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SAFETY PRECAUTION and PRODUCT SAFETY NOTICE.

Do not degrade the safety of the receiver through improper servicing.

Note:

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- The PC board assembly with ✱ mark is no longer available after the end of the production.

Abbreviations

Capacitors CD : Ceramic Disk

Resistors CF : Carbon film
OMF : Oxide Metal Film
PF : Plastic Film
CC : Carbon Composition
VR : Variable Resistor

EL : Electrolytic
MF : Metal Film
FR : Fusible Resistor

All CD and PF capacitors are ±5 %, 50 V and all resistor, ±5 %, 1/6 W unless otherwise noted.

U01A POWER (PE0252)

	Location	Parts No.	Description
*	U01A	75005838	PC BOARD ASSY, PE0252A1, POWER
⚠	C801	76503510	CAPACITOR, PLASTIC FILM, LE224-C
⚠	C802	76503510	CAPACITOR, PLASTIC FILM, LE224-C
⚠	C803	76503169	CAPACITOR, PLASTIC FILM, 630V 0.1UF J
	C804	76214103	CAPACITOR, CERAMIC DISC, 500V B 0.01UF K
	C805	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF
	C810	76125035	CAPACITOR, ELECTROLYTIC, 450V 470UF M
⚠	C811	76092567	CAPACITOR, CERAMIC DISC, AC250V E 1000PF M
⚠	C812	76092567	CAPACITOR, CERAMIC DISC, AC250V E 1000PF M
	C813	76092616	CAPACITOR, CERAMIC CHIP, 16V B 0.33UF K
	C815	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
	C816	76073090	CAPACITOR, ELECTROLYTIC, 50V 100UF M
	C817	76092463	CAPACITOR, CERAMIC CHIP, 16V B 0.22UF K
	C819	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	C820	76092796	CAPACITOR, CERAMIC CHIP, 50V B 0.22UF K
	C821	76092343	CAPACITOR, CERAMIC DISC, 2KV 680PF K
	C822	76092344	CAPACITOR, CERAMIC DISC, 2KV 820PF K
	C823	76092341	CAPACITOR, CERAMIC DISC, 2KV R 470PF K
	C824	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C825	75004442	CAPACITOR, CERAMIC CHIP, 50V B 1UF K
	C826	76092341	CAPACITOR, CERAMIC DISC, 2KV R 470PF K
	C827	76678229	CAPACITOR, ELECTROLYTIC, 200V 2.2UF M
	C883	76125039	CAPACITOR, ELECTROLYTIC, 35V 4700UF M
	C888	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C889	76073094	CAPACITOR, ELECTROLYTIC, 50V 1000UF M
	C890	76092616	CAPACITOR, CERAMIC CHIP, 16V B 0.33UF K
	CE04	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF
	CE07	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
	CE09	76668339	CAPACITOR, ELECTROLYTIC, 35V 3.3UF M
	CE10	76125040	CAPACITOR, ELECTROLYTIC, 450V 120UF M
	CE12	76092883	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K
⚠	CE13	76092565	CAPACITOR, CERAMIC DISC, AC250V B 470PF K
⚠	CE14	76092565	CAPACITOR, CERAMIC DISC, AC250V B 470PF K
	CE16	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
	CE17	76092339	CAPACITOR, CERAMIC DISC, 2KV 330PF K
	CE23	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
	CE24	76285104	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K
	CE29	76105331	CAPACITOR, CERAMIC CHIP, 50V CH 330PF J
	CE43	76092883	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K
	CE82	76676470	CAPACITOR, ELECTROLYTIC, 100V 47UF M

	CE85	76073178	CAPACITOR, ELECTROLYTIC, 25V 3300UF M
	D801	23362200	DIODE, D5SB60, 7009F07
	D801B	23717240	SCREW, BITTB3X10SZN
	D805	23357850	DIODE, ZENER, MTZJ9.1A
	D806	23357893	DIODE, ZENER, MTZJ27C
	D809	23357905	DIODE, ZENER, MTZJ36C
	D810	23357893	DIODE, ZENER, MTZJ27C
	D811	23357511	DIODE, AG01A
	D812	23357852	DIODE, ZENER, MTZJ9.1C
	D813	23357512	DIODE, AL01Z
	D852	23357697	DIODE, 1SS133
	D883	75001877	DIODE, FMEN-220A
	D883B	23717240	SCREW, BITTB3X10SZN
	D884	75001877	DIODE, FMEN-220A
	D884B	23717240	SCREW, BITTB3X10SZN
	D885	23357512	DIODE, AL01Z
	D886	23357512	DIODE, AL01Z
⚠	D899	75001869	VARISTOR, V1=470V 2500A/2
	DE01	23362204	DIODE, D3SB60, 7109F08
	DE02	23357511	DIODE, AG01A
	DE03	23357511	DIODE, AG01A
	DE05	23357104	DIODE, 1SS244
	DE06	23357366	DIODE, FR105-B5
	DE07	23357900	DIODE, ZENER, MTZJ33B
	DE09	23357842	DIODE, ZENER, MTZJ6.8B
	DE14	23357512	DIODE, AL01Z
	DE15	23357892	DIODE, ZENER, MTZJ27B
	DE16	23357880	DIODE, ZENER, MTZJ20B
	DE17	23357512	DIODE, AL01Z
	DE72	23357366	DIODE, FR105-B5
	DE75	23357408	DIODE, FMX-12S(023-108)
	DE75B	23717240	SCREW, BITTB3X10SZN
⚠	F801	75005842	FUSE, CARTRIDGE 5.2X20, FSL 250V 6.3A (EM)
	F801A	23165433	FUSE HOLDER, 5.2
	F801B	23165433	FUSE HOLDER, 5.2
⚠	F802	23144380	FUSE, RADIAL LEAD SUB-MINIATUR, 250V 3.15A
⚠	FE01	75005841	FUSE, RADIAL, 5RT 3.15A
⚠	L801	23217846	TRANSFORMER, CHOKE, TPW2081AS
⚠	L802	23217788	TRANSFORMER, CHOKE, TPW2070AS
	L804	23103304	FERRITE CHOKE, TEM2011AA
	L805	23103304	FERRITE CHOKE, TEM2011AA
	L806	23248417	COIL, CHOKE, TLN3481AH
	L807	23248417	COIL, CHOKE, TLN3481AH

	L874	23103304	FERRITE CHOKE, TEM2011AA
	L875	23103304	FERRITE CHOKE, TEM2011AA
	L876	23103304	FERRITE CHOKE, TEM2011AA
	L878	23103304	FERRITE CHOKE, TEM2011AA
	L883	75005790	COIL, CHOKE, 1.5MMH M 14A, LB1R5 HA
	LE11	23103304	FERRITE CHOKE, TEM2011AA
⚠	P801A	23713702	PLUG, 2P 11.88MM W VT
	P804A	23713942	CONNECTOR, 10P, B10B-PH-K-S(LF)
	P805A	23713942	CONNECTOR, 10P, B10B-PH-K-S(LF)
	P806A	23713759	PLUG, 8P 2.5MM G, B8B-EH-F1-TV4
	P807A	23713757	PLUG, 6P 2.5MM G, B6B-EH-F1-TV4
	PG03	23165495	EARTH TERMINAL, MET31-0332
	PG04	23165495	EARTH TERMINAL, MET31-0332
	Q801	75003052	IC, STR-Z4567
⚠	Q826	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	Q851	23205446	TRANSISTOR, 2SC2412K, Q T146
	Q852	23205446	TRANSISTOR, 2SC2412K, Q T146
	Q883	23135091	IC, SE024N
	QE01	23135072	IC, STRW6765
	QE01B	23717240	SCREW, BITTB3X10SZN
⚠	QE26	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	QE83	23085587	IC, TA76431S
⚠	R801	76004716	RESISTOR, METAL GLAZE, 1/2W 2.2M OHM J
	R803	76366102	RESISTOR, CARBON FILM, 1/6W 1K OHM J
	R805	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R806	76552470	RESISTOR, OXIDE METAL FILM, 1/2W 47 OHM J
	R807	76366393	RESISTOR, CARBON FILM, 1/6W 39K OHM J
	R808	76552101	RESISTOR, OXIDE METAL FILM, 1/2W 100 OHM J
	R809	76321689	RESISTOR, OXIDE METAL FILM, 1/2W 6.8 OHM J
	R812	76552471	RESISTOR, OXIDE METAL FILM, 1/2W 470 OHM J
	R813	76366220	RESISTOR, CARBON FILM, 1/6W 22 OHM J
	R814	76552470	RESISTOR, OXIDE METAL FILM, 1/2W 47 OHM J
	R815	76552100	RESISTOR, OXIDE METAL FILM, 1/2W 10 OHM J
	R816	76011331	RESISTOR, CHIP, 1/20W 330 OHM J
	R817	76377224	RESISTOR, CARBON FILM, 1W 220K OHM J
	R821	76322689	RESISTOR, OXIDE METAL FILM, 1W 6.8 OHM J
	R827	76383103	RESISTOR, OXIDE METAL FILM, 2W 10K OHM J
	R828	76383103	RESISTOR, OXIDE METAL FILM, 2W 10K OHM J
	R853	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R854	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R869	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R873	76871152	RESISTOR, CHIP, 1/8W 1.5K OHM J
	R874	76000445	CHIP JUMPER, 1608TYPE

	R890	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
⚠	R899	76004718	RESISTOR, METAL GLAZE, 1/2W 8.2M OHM J
	RE03	76382104	RESISTOR, OXIDE METAL FILM, 1W 100K OHM J
	RE04	76382104	RESISTOR, OXIDE METAL FILM, 1W 100K OHM J
	RE12	76552221	RESISTOR, OXIDE METAL FILM, 1/2W 220 OHM J
	RE13	76011273	RESISTOR, CHIP, 1/20W 27K OHM J
	RE15	76366102	RESISTOR, CARBON FILM, 1/6W 1K OHM J
	RE16	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RE18	75005839	RESISTOR, RGC2-0.47-OHM-J
	RE19	76310829	RESISTOR, METAL FILM, 1/2W 8.2 OHM J
	RE23	76552152	RESISTOR, OXIDE METAL FILM, 1/2W 1.5K OHM J
	RE38	76871222	RESISTOR, CHIP, 1/8W 2.2K OHM J
	RE39	76011152	RESISTOR, CHIP, 1/20W 1.5K OHM J
	RE43	76011753	RESISTOR, CHIP, 1/20W 75K OHM J
	RE44	76000593	RESISTOR, CHIP, 1/16W 10K OHM F
	RE46	76000448	RESISTOR, CHIP, 1/16W 1.8K OHM F
	RE48	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
⚠	SR81	23146597	RELAY, DC5V 0.25W, DG5D1-O(M)-2
⚠	T801	75005840	FILTER LF 30XH25 16MH 1.6A, LCL-42806-HA
⚠	T802	75005840	FILTER LF 30XH25 16MH 1.6A, LCL-42806-HA
⚠	T862	75003049	TRANSFORMER, ST-3210
⚠	TE62	23217841	TRANSFORMER, CONVERTER, TPW3586AD
	Z889	23144416	FUSE, PROTECTOR, 125V 5A, SMP125M05A00
	ZE72	23144412	FUSE, PROTECTOR, 125V 1A, SMP125M01A00
	ZE75	23144416	FUSE, PROTECTOR, 125V 5A, SMP125M05A00

U01A POWER (PE0252)

	Location	Parts No.	Description
*	U01A	75005838	PC BOARD ASSY, PE0252A1, POWER
⚠	C801	76503510	CAPACITOR, PLASTIC FILM, LE224-C
⚠	C802	76503510	CAPACITOR, PLASTIC FILM, LE224-C
⚠	C803	76503169	CAPACITOR, PLASTIC FILM, 630V 0.1UF J
	C804	76214103	CAPACITOR, CERAMIC DISC, 500V B 0.01UF K
	C805	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF
	C810	76125035	CAPACITOR, ELECTROLYTIC, 450V 470UF M
⚠	C811	76092567	CAPACITOR, CERAMIC DISC, AC250V E 1000PF M
⚠	C812	76092567	CAPACITOR, CERAMIC DISC, AC250V E 1000PF M
	C813	76092616	CAPACITOR, CERAMIC CHIP, 16V B 0.33UF K
	C815	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
	C816	76073090	CAPACITOR, ELECTROLYTIC, 50V 100UF M
	C817	76092463	CAPACITOR, CERAMIC CHIP, 16V B 0.22UF K
	C819	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	C820	76092796	CAPACITOR, CERAMIC CHIP, 50V B 0.22UF K
	C821	76092343	CAPACITOR, CERAMIC DISC, 2KV 680PF K
	C822	76092344	CAPACITOR, CERAMIC DISC, 2KV 820PF K
	C823	76092341	CAPACITOR, CERAMIC DISC, 2KV R 470PF K
	C824	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C825	75004442	CAPACITOR, CERAMIC CHIP, 50V B 1UF K
	C826	76092341	CAPACITOR, CERAMIC DISC, 2KV R 470PF K
	C827	76678229	CAPACITOR, ELECTROLYTIC, 200V 2.2UF M
	C883	76125039	CAPACITOR, ELECTROLYTIC, 35V 4700UF M
	C888	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C889	76073094	CAPACITOR, ELECTROLYTIC, 50V 1000UF M
	C890	76092616	CAPACITOR, CERAMIC CHIP, 16V B 0.33UF K
	CE04	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF
	CE07	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
	CE09	76668339	CAPACITOR, ELECTROLYTIC, 35V 3.3UF M
	CE10	76125040	CAPACITOR, ELECTROLYTIC, 450V 120UF M
	CE12	76092883	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K
⚠	CE13	76092565	CAPACITOR, CERAMIC DISC, AC250V B 470PF K
⚠	CE14	76092565	CAPACITOR, CERAMIC DISC, AC250V B 470PF K
	CE16	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
	CE17	76092339	CAPACITOR, CERAMIC DISC, 2KV 330PF K
	CE23	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
	CE24	76285104	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K
	CE29	76105331	CAPACITOR, CERAMIC CHIP, 50V CH 330PF J
	CE43	76092883	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K
	CE82	76676470	CAPACITOR, ELECTROLYTIC, 100V 47UF M

	CE85	76073178	CAPACITOR, ELECTROLYTIC, 25V 3300UF M
	D801	23362200	DIODE, D5SB60, 7009F07
	D801B	23717240	SCREW, BITTB3X10SZN
	D805	23357850	DIODE, ZENER, MTZJ9.1A
	D806	23357893	DIODE, ZENER, MTZJ27C
	D809	23357905	DIODE, ZENER, MTZJ36C
	D810	23357893	DIODE, ZENER, MTZJ27C
	D811	23357511	DIODE, AG01A
	D812	23357852	DIODE, ZENER, MTZJ9.1C
	D813	23357512	DIODE, AL01Z
	D852	23357697	DIODE, 1SS133
	D883	75001877	DIODE, FMEN-220A
	D883B	23717240	SCREW, BITTB3X10SZN
	D884	75001877	DIODE, FMEN-220A
	D884B	23717240	SCREW, BITTB3X10SZN
	D885	23357512	DIODE, AL01Z
	D886	23357512	DIODE, AL01Z
⚠	D899	75001869	VARISTOR, V1=470V 2500A/2
	DE01	23362204	DIODE, D3SB60, 7109F08
	DE02	23357511	DIODE, AG01A
	DE03	23357511	DIODE, AG01A
	DE05	23357104	DIODE, 1SS244
	DE06	23357366	DIODE, FR105-B5
	DE07	23357900	DIODE, ZENER, MTZJ33B
	DE09	23357842	DIODE, ZENER, MTZJ6.8B
	DE14	23357512	DIODE, AL01Z
	DE15	23357892	DIODE, ZENER, MTZJ27B
	DE16	23357880	DIODE, ZENER, MTZJ20B
	DE17	23357512	DIODE, AL01Z
	DE72	23357366	DIODE, FR105-B5
	DE75	23357408	DIODE, FMX-12S(023-108)
	DE75B	23717240	SCREW, BITTB3X10SZN
⚠	F801	75005842	FUSE, CARTRIDGE 5.2X20, FSL 250V 6.3A (EM)
	F801A	23165433	FUSE HOLDER, 5.2
	F801B	23165433	FUSE HOLDER, 5.2
⚠	F802	23144380	FUSE, RADIAL LEAD SUB-MINIATUR, 250V 3.15A
⚠	FE01	75005841	FUSE, RADIAL, 5RT 3.15A
⚠	L801	23217846	TRANSFORMER, CHOKE, TPW2081AS
⚠	L802	23217788	TRANSFORMER, CHOKE, TPW2070AS
	L804	23103304	FERRITE CHOKE, TEM2011AA
	L805	23103304	FERRITE CHOKE, TEM2011AA
	L806	23248417	COIL, CHOKE, TLN3481AH
	L807	23248417	COIL, CHOKE, TLN3481AH

	L874	23103304	FERRITE CHOKE, TEM2011AA
	L875	23103304	FERRITE CHOKE, TEM2011AA
	L876	23103304	FERRITE CHOKE, TEM2011AA
	L878	23103304	FERRITE CHOKE, TEM2011AA
	L883	75005790	COIL, CHOKE, 1.5MMH M 14A, LB1R5 HA
	LE11	23103304	FERRITE CHOKE, TEM2011AA
⚠	P801A	23713702	PLUG, 2P 11.88MM W VT
	P804A	23713942	CONNECTOR, 10P, B10B-PH-K-S(LF)
	P805A	23713942	CONNECTOR, 10P, B10B-PH-K-S(LF)
	P806A	23713759	PLUG, 8P 2.5MM G, B8B-EH-F1-TV4
	P807A	23713757	PLUG, 6P 2.5MM G, B6B-EH-F1-TV4
	PG03	23165495	EARTH TERMINAL, MET31-0332
	PG04	23165495	EARTH TERMINAL, MET31-0332
	Q801	75003052	IC, STR-Z4567
⚠	Q826	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	Q851	23205446	TRANSISTOR, 2SC2412K, Q T146
	Q852	23205446	TRANSISTOR, 2SC2412K, Q T146
	Q883	23135091	IC, SE024N
	QE01	23135072	IC, STRW6765
	QE01B	23717240	SCREW, BITTB3X10SZN
⚠	QE26	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	QE83	23085587	IC, TA76431S
⚠	R801	76004716	RESISTOR, METAL GLAZE, 1/2W 2.2M OHM J
	R803	76366102	RESISTOR, CARBON FILM, 1/6W 1K OHM J
	R805	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R806	76552470	RESISTOR, OXIDE METAL FILM, 1/2W 47 OHM J
	R807	76366393	RESISTOR, CARBON FILM, 1/6W 39K OHM J
	R808	76552101	RESISTOR, OXIDE METAL FILM, 1/2W 100 OHM J
	R809	76321689	RESISTOR, OXIDE METAL FILM, 1/2W 6.8 OHM J
	R812	76552471	RESISTOR, OXIDE METAL FILM, 1/2W 470 OHM J
	R813	76366220	RESISTOR, CARBON FILM, 1/6W 22 OHM J
	R814	76552470	RESISTOR, OXIDE METAL FILM, 1/2W 47 OHM J
	R815	76552100	RESISTOR, OXIDE METAL FILM, 1/2W 10 OHM J
	R816	76011331	RESISTOR, CHIP, 1/20W 330 OHM J
	R817	76377224	RESISTOR, CARBON FILM, 1W 220K OHM J
	R821	76322689	RESISTOR, OXIDE METAL FILM, 1W 6.8 OHM J
	R827	76383103	RESISTOR, OXIDE METAL FILM, 2W 10K OHM J
	R828	76383103	RESISTOR, OXIDE METAL FILM, 2W 10K OHM J
	R853	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R854	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R869	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R873	76871152	RESISTOR, CHIP, 1/8W 1.5K OHM J
	R874	76000445	CHIP JUMPER, 1608TYPE

	R890	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
⚠	R899	76004718	RESISTOR, METAL GLAZE, 1/2W 8.2M OHM J
	RE03	76382104	RESISTOR, OXIDE METAL FILM, 1W 100K OHM J
	RE04	76382104	RESISTOR, OXIDE METAL FILM, 1W 100K OHM J
	RE12	76552221	RESISTOR, OXIDE METAL FILM, 1/2W 220 OHM J
	RE13	76011273	RESISTOR, CHIP, 1/20W 27K OHM J
	RE15	76366102	RESISTOR, CARBON FILM, 1/6W 1K OHM J
	RE16	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RE18	75005839	RESISTOR, RGC2-0.47-OHM-J
	RE19	76310829	RESISTOR, METAL FILM, 1/2W 8.2 OHM J
	RE23	76552152	RESISTOR, OXIDE METAL FILM, 1/2W 1.5K OHM J
	RE38	76871222	RESISTOR, CHIP, 1/8W 2.2K OHM J
	RE39	76011152	RESISTOR, CHIP, 1/20W 1.5K OHM J
	RE43	76011753	RESISTOR, CHIP, 1/20W 75K OHM J
	RE44	76000593	RESISTOR, CHIP, 1/16W 10K OHM F
	RE46	76000448	RESISTOR, CHIP, 1/16W 1.8K OHM F
	RE48	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
⚠	SR81	23146597	RELAY, DC5V 0.25W, DG5D1-O(M)-2
⚠	T801	75005840	FILTER LF 30XH25 16MH 1.6A, LCL-42806-HA
⚠	T802	75005840	FILTER LF 30XH25 16MH 1.6A, LCL-42806-HA
⚠	T862	75003049	TRANSFORMER, ST-3210
⚠	TE62	23217841	TRANSFORMER, CONVERTER, TPW3586AD
	Z889	23144416	FUSE, PROTECTOR, 125V 5A, SMP125M05A00
	ZE72	23144412	FUSE, PROTECTOR, 125V 1A, SMP125M01A00
	ZE75	23144416	FUSE, PROTECTOR, 125V 5A, SMP125M05A00

U02A LOW_B (PE0253)

	Location	Parts No.	Description
*	U02A	75005856	PC BOARD ASSY, PE0253A1, LOW_B
	CE100	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z
	CE102	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CE150	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
	CE151	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
	CE200	76073183	CAPACITOR, ELECTROLYTIC, 35V 220UF M
	CE201	76617023	CAPACITOR, ELECTROLYTIC, 16V 330UF M
	CE203	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CE31	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CE501	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
	CE531	75005708	CAPACITOR, CHIP CERA, 50V B 0.33UF K, C2012JB1H334KT
	CE532	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CE533	76794101	CAPACITOR, ELECTROLYTIC, 16V 100UF M
	CE551	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
	CE552	76073189	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	CE571	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
	CE573	76092859	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CE574	76109223	CAPACITOR, CERAMIC CHIP, 25V B 0.022UF K
	CE730	76795101	CAPACITOR, ELECTROLYTIC, 25V 100UF M
	CE750	76092616	CAPACITOR, CERAMIC CHIP, 16V B 0.33UF K
	CE751	76073150	CAPACITOR, ELECTROLYTIC, 16V 56UF M
	CE800	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
	CE801	75004442	CAPACITOR, CERAMIC CHIP, 50V B 1UF K
	CE803	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	CE805	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	CE806	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
	DE150	23357800	DIODE, ZENER, MA8300-H
	DE151	23357703	DIODE, 1SS355
	DE200	75005719	DIODE, D1NS4-5060
	DE201	23357842	DIODE, ZENER, MTZJ6.8B
	DE31	23357862	DIODE, ZENER, MTZJ11B
	DE32	23357862	DIODE, ZENER, MTZJ11B
	DE33	23357855	DIODE, ZENER, MTZJ10C
	DE41	23357703	DIODE, 1SS355
	DE43	23357869	DIODE, ZENER, MTZJ13C
	DE44	23357869	DIODE, ZENER, MTZJ13C
	DE501	23357783	DIODE, ZENER, MA8180-L, TX
	DE502	23357703	DIODE, 1SS355
	DE531	23357866	DIODE, ZENER, MTZJ12C

	DE571	23357840	DIODE, ZENER, MTZJ6.2B
	DE573	23357848	DIODE, ZENER, MTZJ8.2B
	DE700	23357835	DIODE, ZENER, MTZJ5.1C
	DE730	23357867	DIODE, ZENER, MTZJ13A
	DE731	23357703	DIODE, 1SS355
	DE801	23357844	DIODE, ZENER, MTZJ7.5A
	LE200	23289049	COIL, PEAKING, TRF4330AU
	LE201	23248399	COIL, CHOKE, TLN3283D
	LE202	23103304	FERRITE CHOKE, TEM2011AA
	LE501	23248417	COIL, CHOKE, TLN3481AH
	LE571	23248417	COIL, CHOKE, TLN3481AH
	LE800	23248417	COIL, CHOKE, TLN3481AH
	LE801	75005857	COIL, CHOKE, 100MMH M 2.3A, RCP1317NP-101M
	LE802	23248417	COIL, CHOKE, TLN3481AH
	P806B	23713759	PLUG, 8P 2.5MM G, B8B-EH-F1-TV4
	P807B	23713757	PLUG, 6P 2.5MM G, B6B-EH-F1-TV4
	P820B	23713760	PLUG, NP 2.5MM G, B9B-EH-F1A
	PG02	23165495	EARTH TERMINAL, MET31-0332
	QE05	23205330	TRANSISTOR, RN1403(F)
	QE100	23205443	TRANSISTOR, 2SA1162-Y(F)
	QE101	23205446	TRANSISTOR, 2SC2412K, Q T146
	QE102	23205446	TRANSISTOR, 2SC2412K, Q T146
	QE103	23205327	TRANSISTOR, RN1406(F)
	QE150	23085415	IC, BD4746G
	QE20	75003051	IC, SI-8050W-TL
	QE31	23205568	TRANSISTOR, 2SA1163-GR(TE85L, F
	QE32	23205569	TRANSISTOR, 2SC2713-GR(TE85L, F
	QE40	23205292	TRANSISTOR, 2SD2396
	QE40B	23717240	SCREW, BITTB3X10SZN
	QE500	75001881	IC, CE-1059
	QE501	23205446	TRANSISTOR, 2SC2412K, Q T146
	QE503	23205330	TRANSISTOR, RN1403(F)
	QE53	23085423	IC, KIA7809API-U/P
	QE53B	23717240	SCREW, BITTB3X10SZN
	QE55	75001876	TRANSISTOR, TPC8111(TE12L, Q)
	QE552	23205330	TRANSISTOR, RN1403(F)
	QE553	23205567	TRANSISTOR, RN2403(TE85L, F)
	QE554	23205330	TRANSISTOR, RN1403(F)
	QE57	75001881	IC, CE-1059
	QE572	23085338	IC, BD5245G-TR
	QE573	23205446	TRANSISTOR, 2SC2412K, Q T146

	QE574	23205446	TRANSISTOR, 2SC2412K, Q T146
	QE70	75001881	IC, CE-1059
	QE73	23205292	TRANSISTOR, 2SD2396
	QE75	75005858	IC, PQ070XF02SZH
	QE75B	23717240	SCREW, BITTB3X10SZN
	QE80	75005723	IC, MP1591DS-LF-Z
	RE05	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	RE100	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE101	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE102	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE103	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE104	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RE105	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE106	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE107	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RE108	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RE150	76190014	RESISTOR, CHIP, 1/16W 18K OHM F
	RE151	76190013	RESISTOR, CHIP, 1/16W 22K OHM F
	RE152	76000574	RESISTOR, CHIP, 1/16W 2.7K OHM F
	RE153	76000552	RESISTOR, CHIP, 1/16W 390 OHM F
	RE154	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
	RE155	76011562	RESISTOR, CHIP, 1/20W 5.6K OHM J
	RE200	76000445	CHIP JUMPER, 1608TYPE
	RE31	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RE32	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RE33	76553122	RESISTOR, OXIDE METAL FILM, 1W 1.2K OHM J
	RE34	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE35	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RE41	76552271	RESISTOR, OXIDE METAL FILM, 1/2W 270 OHM J
	RE501	76011151	RESISTOR, CHIP, 1/20W 150 OHM J
	RE502	76000445	CHIP JUMPER, 1608TYPE
	RE506	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE507	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE508	76871222	RESISTOR, CHIP, 1/8W 2.2K OHM J
	RE509	76871222	RESISTOR, CHIP, 1/8W 2.2K OHM J
	RE551	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	RE552	76011562	RESISTOR, CHIP, 1/20W 5.6K OHM J
	RE571	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE572	76011682	RESISTOR, CHIP, 1/20W 6.8K OHM J
	RE573	76011682	RESISTOR, CHIP, 1/20W 6.8K OHM J
	RE574	76011471	RESISTOR, CHIP, 1/20W 470 OHM J

	RE575	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RE576	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE577	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RE578	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE579	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RE700	76011822	RESISTOR, CHIP, 1/20W 8.2K OHM J
	RE701	76000445	CHIP JUMPER, 1608TYPE
	RE702	76011562	RESISTOR, CHIP, 1/20W 5.6K OHM J
	RE703	76011821	RESISTOR, CHIP, 1/20W 820 OHM J
	RE704	76011182	RESISTOR, CHIP, 1/20W 1.8K OHM J
	RE730	76871122	RESISTOR, CHIP, 1/8W 1.2K OHM J
	RE731	76871122	RESISTOR, CHIP, 1/8W 1.2K OHM J
	RE750	76000573	RESISTOR, CHIP, 1/16W 1.0K F
	RE751	76000445	CHIP JUMPER, 1608TYPE
	RE752	76000573	RESISTOR, CHIP, 1/16W 1.0K F
	RE800	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
	RE801	76000445	CHIP JUMPER, 1608TYPE
	RE802	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RE803	76011392	RESISTOR, CHIP, 1/20W 3.9K OHM J
	RE804	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE805	76011220	RESISTOR, CHIP, 1/20W 22 OHM J
	RE806	76011562	RESISTOR, CHIP, 1/20W 5.6K OHM J
	RE807	76011821	RESISTOR, CHIP, 1/20W 820 OHM J
	RE808	76011182	RESISTOR, CHIP, 1/20W 1.8K OHM J
	ZE41	23144413	FUSE, PROTECTOR 125V 2A, SMP125M02A00
	ZE730	23144413	FUSE, PROTECTOR 125V 2A, SMP125M02A00

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	Location	Parts No.	Description
*	U03A	75005868	PC BOARD ASSY, PE0250A1, AV_TERMINAL
	C101	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C102	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C103	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C104	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	C105	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C106	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C112	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C114	76105330	CAPACITOR, CERAMIC CHIP, 50V CH 33PF J
	C115	76105330	CAPACITOR, CERAMIC CHIP, 50V CH 33PF J
	C162	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	C164	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C190	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	C4073	76105220	CAPACITOR, CERAMIC CHIP, 50V CH 22PF J
	C415	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	C416	76092731	CAPACITOR, CERAMIC CHIP, 16V B 1UF K
	C417	76109221	CAPACITOR, CERAMIC CHIP, 50V B 220PF K
	C419	76109222	CAPACITOR, CERAMIC CHIP, 50V B 2200PF K
	C457	76092731	CAPACITOR, CERAMIC CHIP, 16V B 1UF K
	C459	76105220	CAPACITOR, CERAMIC CHIP, 50V CH 22PF J
	C460	76109221	CAPACITOR, CERAMIC CHIP, 50V B 220PF K
	C461	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	C462	76109222	CAPACITOR, CERAMIC CHIP, 50V B 2200PF K
	C463	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	C465	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	C645	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C660	76669479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	C661	76669479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	C662	76109681	CAPACITOR, CERAMIC CHIP, 50V B 680PF K
	C663	76109681	CAPACITOR, CERAMIC CHIP, 50V B 680PF K
	C668	76092515	CAPACITOR, CERAMIC CHIP, 16V F 4.7UF Z
	C669	76092515	CAPACITOR, CERAMIC CHIP, 16V F 4.7UF Z
	C670	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	C671	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	C672	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	C673	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	C674	76669010	CAPACITOR, ELECTROLYTIC, 50V 1UF M
	C675	76105221	CAPACITOR, CERAMIC CHIP, 50V CH 220PF J
	C676	76105221	CAPACITOR, CERAMIC CHIP, 50V CH 220PF J

	C677	76667470	CAPACITOR, ELECTROLYTIC, 25V 47UF M
	C678	76567104	CAPACITOR, PLASTIC FILM, 50V 0.1UF J
	C680	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	C681	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	C682	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	C683	76669339	CAPACITOR, ELECTROLYTIC, 50V 3.3UF M
	C683A	23960136	ADHESIVE, SILICONE, TSE3843-W
	C684	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C685	76669010	CAPACITOR, ELECTROLYTIC, 50V 1UF M
	C686	76092463	CAPACITOR, CERAMIC CHIP, 16V B 0.22UF K
	C687	76567104	CAPACITOR, PLASTIC FILM, 50V 0.1UF J
	C689	76092463	CAPACITOR, CERAMIC CHIP, 16V B 0.22UF K
	C690	76073005	CAPACITOR, ELECTROLYTIC, 6.3V 1000UF M
	C691	76666470	CAPACITOR, ELECTORLYTIC, 16V 47UF M
	C692	76666470	CAPACITOR, ELECTORLYTIC, 16V 47UF M
	C695	76665471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C696	76665471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C8001	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	CA01	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z
	CA02	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CA06	76105100	CAPACITOR, CERAMIC CHIP, 50V CH 10PF D
	CA07	76105090	CAPACITOR, CERAMIC CHIP, 50V CH 9PF C
	CA19	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z
	CA70	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CA71	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CA91	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CC01	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC02	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC03	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC04	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC05	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC06	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC07	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC08	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC20	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC21	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC32	76105100	CAPACITOR, CERAMIC CHIP, 50V CH 10PF D
	CG01	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG02	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CG03	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
	CG04	76109221	CAPACITOR, CERAMIC CHIP, 50V B 220PF K

	CG05	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG06	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG07	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG09	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG10	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG11	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG12	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG13	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG14	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG15	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG16	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG17	76073089	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CG20	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG21	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG22	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG23	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	CG24	76669339	CAPACITOR, ELECTROLYTIC, 50V 3.3UF M
	CG25	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG26	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG27	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG28	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG29	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG30	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG31	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG32	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG33	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG34	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG35	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG36	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG37	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CG38	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
	CG39	76105560	CAPACITOR, CERAMIC CHIP, 50V CH 56PF J
	CG40	76105560	CAPACITOR, CERAMIC CHIP, 50V CH 56PF J
	CG41	76105560	CAPACITOR, CERAMIC CHIP, 50V CH 56PF J
	CG42	76105050	CAPACITOR, CERAMIC CHIP, 50V CH 5PF C
	CG43	76105010	CAPACITOR, CERAMIC CHIP, 50V CK 1PF C
	CG44	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG45	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG46	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG47	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG48	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J

	CG49	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG50	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG51	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG52	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG53	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG54	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG55	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG56	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG57	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS01	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS02	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS03	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS04	76797470	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CS05	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS06	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS07	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS08	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS09	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS10	76797470	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CS11	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS12	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS13	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS14	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS15	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS16	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS17	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS18	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS19	76797470	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CS20	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS21	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS22	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS23	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS24	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS25	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS26	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS27	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS28	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS31	76203100	CAPACITOR, ELECTROLYTIC, 16V 10UF M
	CS36	76073086	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CS37	76073086	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CS38	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K

	CS39	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS40	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS41	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS42	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS43	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CV201	76794101	CAPACITOR, ELECTROLYTIC, 16V 100UF M
	CV221	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV222	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV223	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CV224	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	CV231	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV232	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV233	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CV234	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	CV51	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV52	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV54	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV55	76203100	CAPACITOR, ELECTROLYTIC, 16V 10UF M
	CV56	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	D401	23362251	DIODE, SDS511(SOD-323)
	D608	23357765	DIODE, ZENER, MA8100-M
	D640	23362251	DIODE, SDS511(SOD-323)
	D641	23362251	DIODE, SDS511(SOD-323)
	D644	23362251	DIODE, SDS511(SOD-323)
	D645	23362251	DIODE, SDS511(SOD-323)
	D670	23362251	DIODE, SDS511(SOD-323)
	D671	23362251	DIODE, SDS511(SOD-323)
	D672	23362251	DIODE, SDS511(SOD-323)
	D673	23362251	DIODE, SDS511(SOD-323)
	D676	23362251	DIODE, SDS511(SOD-323)
	D677	23362251	DIODE, SDS511(SOD-323)
	D678	23362251	DIODE, SDS511(SOD-323)
	DA02	23357703	DIODE, 1SS355
	DA03	23357730	DIODE, ZENER, MA8033-L
	DA11	23357703	DIODE, 1SS355
	DE96	23357840	DIODE, ZENER, MTZJ6.2B
	DG01	23357742	DIODE, ZENER, MA8051-M
	DS01	23362140	DIODE, KDS160-RTK
	DS02	23362140	DIODE, KDS160-RTK
	DS03	23362251	DIODE, SDS511(SOD-323)
	DS04	23362251	DIODE, SDS511(SOD-323)

	DS05	23362251	DIODE, SDS511(SOD-323)
	DS06	23362251	DIODE, SDS511(SOD-323)
	DS10	23362251	DIODE, SDS511(SOD-323)
	DV06	23357762	DIODE, ZENER, MA8091-M
	DV20	23362042	DIODE, ZENER, UDZS6.8B
	DV21	23362042	DIODE, ZENER, UDZS6.8B
	GA56	23362042	DIODE, ZENER, UDZS6.8B
	GJ41	76000445	CHIP JUMPER, 1608TYPE
	GJ42	76000445	CHIP JUMPER, 1608TYPE
	GJ44	76000445	CHIP JUMPER, 1608TYPE
	GR09	23362042	DIODE, ZENER, UDZS6.8B
	GR17	23362042	DIODE, ZENER, UDZS6.8B
	GR18	23362042	DIODE, ZENER, UDZS6.8B
	GR25	23362042	DIODE, ZENER, UDZS6.8B
	GR31	76000445	CHIP JUMPER, 1608TYPE
	GR32	76000445	CHIP JUMPER, 1608TYPE
	GR33	76000445	CHIP JUMPER, 1608TYPE
	GR34	76000445	CHIP JUMPER, 1608TYPE
	GR35	76000445	CHIP JUMPER, 1608TYPE
	GR37	76000445	CHIP JUMPER, 1608TYPE
	GR48	23362042	DIODE, ZENER, UDZS6.8B
	GR603	76000445	CHIP JUMPER, 1608TYPE
	L101	23248385	COIL, CHOKE, TLN3278AA
	L102	76000445	CHIP JUMPER, 1608TYPE
	L103	76000445	CHIP JUMPER, 1608TYPE
	L104	76000445	CHIP JUMPER, 1608TYPE
	L191	75003112	CHIP BEAD INDUCTOR, 1.0KOHM 0.3A, BK1608 HS102-T
	LA90	76000445	CHIP JUMPER, 1608TYPE
	LA91	76000445	CHIP JUMPER, 1608TYPE
	LA92	76000445	CHIP JUMPER, 1608TYPE
	LA93	76000445	CHIP JUMPER, 1608TYPE
	LA94	76000445	CHIP JUMPER, 1608TYPE
	LC01	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LC02	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LC05	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LC06	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LG01	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LG02	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LV202	23103314	COIL, FILTER, TEM2028AH
	P601	23713755	PLUG, 4P 2.5MM G, B4B-EH-F1-TV4
	P803B	23713818	SOCKET, TWG-P19X-A1

	P810B	23713814	SOCKET, 127301109K2
	PA01A	23713944	CONNECTOR, B12B-PH-K-S(LF)
	PH01	75001989	CONNECTOR, MULTI 21P, CSS5021-9C01F
	PH02	75001989	CONNECTOR, MULTI 21P, CSS5021-9C01F
	PJ22A	75001960	CONNECTOR, 1MM PITCH B TO B, 137701150W3
	PL212	23713938	CONNECTOR, B5B-PH-K-S(LF)
	PV01	75004443	JACK PIN, **P+**S, LAP5000-2207F
	PV25B	75004070	CONNECTOR, B16B-CZHK-B-1(LF)(SN)(V)
	PV90	23713710	SOCKET, D-SUB 15P, KRD-8622
	Q101	23205347	TRANSISTOR, KTC4075Y/P
	Q400	23205346	TRANSISTOR, KTA2014Y/P
	Q401	23205346	TRANSISTOR, KTA2014Y/P
	Q402	23205347	TRANSISTOR, KTC4075Y/P
	Q407	23205346	TRANSISTOR, KTA2014Y/P
	Q408	23205346	TRANSISTOR, KTA2014Y/P
	Q409	23205347	TRANSISTOR, KTC4075Y/P
	Q410	23205347	TRANSISTOR, KTC4075Y/P
	Q4100	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	Q4101	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	Q4102	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	Q4103	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	Q630	23009942	IC, LA4525-E
	Q660	23205347	TRANSISTOR, KTC4075Y/P
	Q661	23205347	TRANSISTOR, KTC4075Y/P
	Q662	23205222	TRANSISTOR, SRA2204S (SOT-23)
	Q663	23205347	TRANSISTOR, KTC4075Y/P
	Q670	23085826	IC, TA8246AHQ(5)
	Q670B	23717240	SCREW, BITTB3X10SZN
	Q671	23205424	TRANSISTOR, KTC2875B/P
	Q672	23205424	TRANSISTOR, KTC2875B/P
	Q673	23205357	TRANSISTOR, KTA1504S Y/P
	Q675	23205424	TRANSISTOR, KTC2875B/P
	Q676	23205424	TRANSISTOR, KTC2875B/P
	Q682	23205222	TRANSISTOR, SRA2204S (SOT-23)
	QA01	75003460	IC, T5CB5-6K14(F, JZ)
	QA03	75001878	IC, TC7SH126FU(TE85L, F)
	QA72	23205347	TRANSISTOR, KTC4075Y/P
	QA73	23205347	TRANSISTOR, KTC4075Y/P
	QG01	75005874	IC, MSP4410K-QI-D7-100
	QG02	23085415	IC, BD4746G
	QG03	23205208	TRANSISTOR, SRC1204S(SOT-23)

	QG04	23205358	TRANSISTOR, KTC3875S Y/P
	QG05	23085576	IC, OP AMP, BA4558F
	QG06	23085576	IC, OP AMP, BA4558F
	QG07	23085576	IC, OP AMP, BA4558F
	QS01	23009613	IC, CD4052BNSR
	QS02	23009614	IC, CD4053BNSR
	QS03	23009614	IC, CD4053BNSR
	QS04	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS05	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS06	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS07	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS08	23205347	TRANSISTOR, KTC4075Y/P
	QS09	23205347	TRANSISTOR, KTC4075Y/P
	QS10	23205347	TRANSISTOR, KTC4075Y/P
	QS11	23205347	TRANSISTOR, KTC4075Y/P
	QS12	23205222	TRANSISTOR, SRA2204S (SOT-23)
	QS13	23205424	TRANSISTOR, KTC2875B/P
	QS14	23205424	TRANSISTOR, KTC2875B/P
	QS15	23205222	TRANSISTOR, SRA2204S (SOT-23)
	QS16	23205424	TRANSISTOR, KTC2875B/P
	QS17	23205424	TRANSISTOR, KTC2875B/P
	QS18	23205347	TRANSISTOR, KTC4075Y/P
	QS19	23205424	TRANSISTOR, KTC2875B/P
	QS20	23205325	TRANSISTOR, RN2404(F)
	QS24	23205424	TRANSISTOR, KTC2875B/P
	QS25	23205424	TRANSISTOR, KTC2875B/P
	QS26	23205222	TRANSISTOR, SRA2204S (SOT-23)
	QS30	23205424	TRANSISTOR, KTC2875B/P
	QS31	23205424	TRANSISTOR, KTC2875B/P
	QS32	23205424	TRANSISTOR, KTC2875B/P
	QS33	23205424	TRANSISTOR, KTC2875B/P
	QS34	23205424	TRANSISTOR, KTC2875B/P
	QV17	23085823	IC, MM1508XNRE
	QV18	23085823	IC, MM1508XNRE
	QV21	23205443	TRANSISTOR, 2SA1162-Y(F)
	QV22	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	QV23	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	QV24	23205347	TRANSISTOR, KTC4075Y/P
	QV25	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV26	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV30	23205346	TRANSISTOR, KTA2014Y/P

	QV31	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV32	23205346	TRANSISTOR, KTA2014Y/P
	QV33	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV51	23205347	TRANSISTOR, KTC4075Y/P
	QV52	23205347	TRANSISTOR, KTC4075Y/P
	QV53	23205347	TRANSISTOR, KTC4075Y/P
	QV54	23205347	TRANSISTOR, KTC4075Y/P
	QV55	23205347	TRANSISTOR, KTC4075Y/P
	R103	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R104	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R105	76011273	RESISTOR, CHIP, 1/20W 27K OHM J
	R114	76000445	CHIP JUMPER, 1608TYPE
	R167	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R169	76000445	CHIP JUMPER, 1608TYPE
	R170	76011682	RESISTOR, CHIP, 1/20W 6.8K OHM J
	R4073	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R4074	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R4075	76011750	RESISTOR, CHIP, 1/20W 75 OHM J
	R4076	76011474	RESISTOR, CHIP, 1/20W 470K OHM J
	R4077	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R4078	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R4079	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R4080	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
	R4082	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	R4083	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R4084	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R4085	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R4100	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R4101	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	R4102	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	R4103	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	R4104	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R4105	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R4106	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	R4107	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	R4108	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	R4109	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R459	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R460	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R461	76011750	RESISTOR, CHIP, 1/20W 75 OHM J
	R462	76011474	RESISTOR, CHIP, 1/20W 470K OHM J

	R463	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R464	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R465	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R466	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
	R601	76554470	RESISTOR, OXIDE METAL FILM, 2W 47 OHM J
	R634	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R635	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R636	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R640	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R641	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R6601	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	R6602	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R6603	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	R6604	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R662	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	R666	76011563	RESISTOR, CHIP, 1/20W 56K OHM J
	R668	76871229	RESISTOR, CHIP, 1/8W 2.2 OHM J
	R669	76871229	RESISTOR, CHIP, 1/8W 2.2 OHM J
	R670	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R671	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R672	76011182	RESISTOR, CHIP, 1/20W 1.8K OHM J
	R673	76011182	RESISTOR, CHIP, 1/20W 1.8K OHM J
	R674	76011563	RESISTOR, CHIP, 1/20W 56K OHM J
	R678	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R679	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R680	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R681	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R682	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	R683	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	R684	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	R685	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R686	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R687	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R688	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R689	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R690	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R691	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R692	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RA01	76011331	RESISTOR, CHIP, 1/20W 330 OHM J
	RA02	76011105	RESISTOR, CHIP, 1/20W 1M OHM J
	RA09	76011102	RESISTOR, CHIP, 1/20W 1K OHM J

	RA10	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA100	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA101	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA102	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA103	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA104	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA105	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA106	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA108	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA11	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA112	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA116	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA117	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA118	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA12	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA120	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA126	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA13	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA14	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA15	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA17	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA20	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA21	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA22	76011102	RESISTOR, CHIP, 1/20W 1K OHM J

U03B FRONT_AV (PE0250)

	Location	Parts No.	Description
∗	U03B	75005869	PC BOARD ASSY, PE0250A2, FRONT_AV
	C604	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C605	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	CC11	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC12	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC13	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC14	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	P661	23365444	EARPHONE JACK, D3.5
	PV25A	75004070	CONNECTOR, B16B-CZHK-B-1(LF)(SN)(V)
	PV60	23365275	PHONO JACK, 3P V-L-R, YKC21
	R696	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	R697	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	R698	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	R699	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	RC11	76011821	RESISTOR, CHIP, 1/20W 820 OHM J
	RC12	76011821	RESISTOR, CHIP, 1/20W 820 OHM J
	RV10	76000445	CHIP JUMPER, 1608TYPE
	RV123	76872750	RESISTOR, CHIP, 1/16W 75 OHM J
	RV129	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RV270	76000445	CHIP JUMPER, 1608TYPE

U03C LED (PE0250)

	Location	Parts No.	Description
*	U03C	75005870	PC BOARD ASSY, PE0250A3, LED
	CB02	75005969	CAPACITOR ELECTROLYTIC 10V 221M, ESRE100ETC2
	CB03	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CB04	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CB05	75005969	CAPACITOR ELECTROLYTIC 10V 221M, ESRE100ETC2
	DB01	75005873	DIODE, LED, 339-1SURSYGW/S530-A3/S195
	DB04	75005873	DIODE, LED, 339-1SURSYGW/S530-A3/S195
	DB22	23362251	DIODE, SDS511(SOD-323)
	DB23	23362251	DIODE, SDS511(SOD-323)
	GB01	23362042	DIODE, ZENER, UDZS6.8B
	KB01	75002236	IC, GP1UE261RKVF
	PA01B	23713949	CONNECTOR, S7B-PH-K-S(LF)
	QB01	23205357	TRANSISTOR, KTA1504S Y/P
	QB02	23205347	TRANSISTOR, KTC4075Y/P
	QB03	23205347	TRANSISTOR, KTC4075Y/P
	RB08	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
	RB09	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
	RB10	76011221	RESISTOR, CHIP, 1/20W 220 OHM J
	RB11	76011821	RESISTOR, CHIP, 1/20W 820 OHM J
	RB12	76011221	RESISTOR, CHIP, 1/20W 220 OHM J
	RB13	76011153	RESISTOR, CHIP, 1/2OW 15K OHM J
	RB14	76011153	RESISTOR, CHIP, 1/2OW 15K OHM J
	RB18	76011153	RESISTOR, CHIP, 1/2OW 15K OHM J

U03D KEY (PE0250)

	Location	Parts No.	Description
✱	U03D	75005871	PC BOARD ASSY, PE0250A4, KEY
	GA01	23362042	DIODE, ZENER, UDZS6.8B
	GA02	23362042	DIODE, ZENER, UDZS6.8B
	GA03	23362042	DIODE, ZENER, UDZS6.8B
	PA01C	23713938	CONNECTOR, B5B-PH-K-S(LF)
	RA71	76011683	RESISTOR, CHIP, 1/20W 68K OHM J
	RA72	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RA73	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA74	76000445	CHIP JUMPER, 1608TYPE
	RA77	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA78	76000445	CHIP JUMPER, 1608TYPE
	RA79	76000445	CHIP JUMPER, 1608TYPE
	SA01	23344507	SWITCH, PUSH, SKHHLMA010
	SA02	23344507	SWITCH, PUSH, SKHHLMA010
	SA03	23344507	SWITCH, PUSH, SKHHLMA010
	SA04	23344507	SWITCH, PUSH, SKHHLMA010
	SA05	23344507	SWITCH, PUSH, SKHHLMA010
	SA06	23344507	SWITCH, PUSH, SKHHLMA010
	SA07	23344507	SWITCH, PUSH, SKHHLMA010

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	Location	Parts No.	Description
*	U04AS	75008443	PC BOARD ASSY, PE0251A1, SIGNAL(1080P)
	C2000	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2001	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2002	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2003	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2004	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2005	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2006	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2007	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2008	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2009	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2010	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2011	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2012	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C2015	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2016	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2017	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2018	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2019	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3002	V03GD0001320	CHIP CERAMIC CAPACITOR (3216)
	C3004	V03GD0001320	CHIP CERAMIC CAPACITOR (3216)
	C312	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C313	V03GD0000559	CHIP CERAMIC CAPACITOR (1608)
	C3201	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C321	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C322	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C327	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
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	C3420	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C360	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C361	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C362	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C370	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C371	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C372	V03GD0000578	CHIP CERAMIC CAPACITOR (1608)
	C373	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
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	C401	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C404	V03GD0000708	CHIP CERAMIC CAPACITOR (1608)
	C406	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C410	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
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	C427	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C428	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C429	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C430	V13GD0000338	CHIP THREE TERMINAL CAPACITOR
	C431	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C432	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C433	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C434	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C435	V03GD0000591	CHIP CERAMIC CAPACITOR (1608)
	C436	V03GD0000574	CHIP CERAMIC CAPACITOR (1608)
	C438	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
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	C441	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)

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	C7957	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7958	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7959	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7960	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7961	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7962	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7963	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7964	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7966	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7967	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7968	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7969	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7970	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7971	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7972	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7973	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7974	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7975	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7976	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7977	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7978	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7979	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7980	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7981	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)

	C7982	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7983	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7984	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7985	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7986	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7987	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7988	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7989	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7990	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7991	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7992	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C872	V03GD0001138	CHIP CERAMIC CAPACITOR (1608)
	C873	V03GD0001138	CHIP CERAMIC CAPACITOR (1608)
	C874	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9055	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9056	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9057	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9058	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9059	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9065	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9066	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9067	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9070	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9071	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9074	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C911	V03GD0001138	CHIP CERAMIC CAPACITOR (1608)
	C912	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C913	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C914	V03GD0000589	CHIP CERAMIC CAPACITOR (1608)
	C915	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C919	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C9202	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9204	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9205	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C9207	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9208	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9211	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9216	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9219	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9220	V03GD0001128	CHIP CERAMIC CAPACITOR (1608)
	C9221	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)

	C9223	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9224	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C923	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C924	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C951	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C953	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	CN320	75001875	CONNECTOR HDMI 1.0MM 19P
	CN321	75001875	CONNECTOR HDMI 1.0MM 19P
	CN322	V22GD0001650	0.5MM PITCH W TO B CONNECTOR
	D201	V42GD0000208	ZENER DIODE
	D202	V42GD0000208	ZENER DIODE
	D203	V42GD0000208	ZENER DIODE
	D204	V42GD0000208	ZENER DIODE
	D205	V42GD0000208	ZENER DIODE
	D206	V42GD0000208	ZENER DIODE
	D207	V42GD0000208	ZENER DIODE
	D208	V42GD0000208	ZENER DIODE
	D209	V42GD0000208	ZENER DIODE
	D210	V42GD0000208	ZENER DIODE
	D211	V42GD0000208	ZENER DIODE
	D212	V42GD0000208	ZENER DIODE
	D213	V42GD0000208	ZENER DIODE
	D214	V42GD0000208	ZENER DIODE
	D215	V42GD0000208	ZENER DIODE
	D216	V42GD0000208	ZENER DIODE
	D224	V42GD0000208	ZENER DIODE
	D225	V42GD0000208	ZENER DIODE
	D400	V42GD0000219	DIODE
	D401	V42GD0000219	DIODE
	D402	V42GD0000219	DIODE
	D403	V42GD0000257	SCHOTTKY BARRIER DIODE
	D500	V42GD0000245	SCHOTTKY BARRIER DIODE
	E101	VF2A00049400	SHIELD SLD SIG TOP EU PRO
	E102	23717306	PPSW 3X5 ECO
	E103	23717306	PPSW 3X5 ECO
	E104	23717306	PPSW 3X5 ECO
	E105	23466412	E02S0607ET15
	E106	23466412	E02S0607ET15
	FL201	75003060	FILTER CHIP BEAD INDUCTOR 47OH
	FL202	75003060	FILTER CHIP BEAD INDUCTOR 47OH
	FL203	75003060	FILTER CHIP BEAD INDUCTOR 47OH

	FL301	V05A000002Q0	COIL
	FL302	V05A000002Q0	COIL
	FL303	V05A000002Q0	COIL
	FL304	75003116	FILTER CHIP BEAD INDUCTOR 60OH
	FL305	75003411	FILTER CHIP BEAD INDUCTOR 220O
	FL306	75003411	FILTER CHIP BEAD INDUCTOR 220O
	FL310	V01GD0001702	CHIP JUMPER 1608TYPE
	FL326	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL327	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL412	V03A000004Q0	CAPACITOR CHIP CERA 25V 104S 3
	FL413	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL415	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL416	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL417	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL418	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL419	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL420	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL421	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL422	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL423	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL424	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL425	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL426	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL427	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL428	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL432	75003411	FILTER CHIP BEAD INDUCTOR 220O
	FL434	75003114	FILTER CHIP BEAD INDUCTOR 120O
	FL435	75003114	FILTER CHIP BEAD INDUCTOR 120O
	FL436	75003113	FILTER CHIP BEAD INDUCTOR 120O
	FL870	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	FL902	V01GD0001702	CHIP JUMPER 1608TYPE
	FL922	75003112	FILTER CHIP BEAD INDUCTOR 1.0K
	FL923	75003112	FILTER CHIP BEAD INDUCTOR 1.0K
	FL924	75003112	FILTER CHIP BEAD INDUCTOR 1.0K
	FL930	75003114	FILTER CHIP BEAD INDUCTOR 120O
	FL931	75003113	FILTER CHIP BEAD INDUCTOR 120O
	FL932	75003114	FILTER CHIP BEAD INDUCTOR 120O
	FL935	75003113	FILTER CHIP BEAD INDUCTOR 120O
	IC300	75005876	IC 3TO1DVI/HDMI SWITCH
	IC301	V45GD0000462	2 INPUT AND GATE
	IC302	V45GD0000462	2 INPUT AND GATE

	IC360	V47GD0000571	AUDIO D/A CONVERTER
	IC371	V47GD0000998	DUAL AUDIO OP AMP
	IC387	75003068	IC HDMI RX-KEY
	IC402	75006542	IC VOLTAGE REGULATOR
	IC403	V47GD0001109	BUCK CONVERTER
	IC404	V46GD0001475	16M(1MX16)BIT FLASH MEMORY
	IC410	V47GD0000702	LOW POWER-LOSS REGURATOR
	IC411	V47GD0000716	VOLTAGE REGULATOR
	IC413	V46GD0001233	128K(16KX8)BIT EEPROM
	IC420	V47GD0001110	STEP-DOWN CONVERTER
	IC700	75006104	IC LCD TV CONTROLLER WITH HDMI
	IC701	75005552	IC 128(8X16)MBIT DDR SDRAM
	IC702	75005552	IC 128(8X16)MBIT DDR SDRAM
	IC705	V45GD0000483	DUAL BILATERAL SWITCH
	IC921	V45GD0000443	EXCLUSIVE OR GATE
	IC923	V45GD0000462	2 INPUT AND GATE
	IC924	V45GD0000462	2 INPUT AND GATE
	L300	75003410	FILTER CHIP BEAD INDUCTOR 330H
	L302	75003410	FILTER CHIP BEAD INDUCTOR 330H
	L344	V05GD0000502	CHIP INDUCTOR(3225)
	L430	V05GD0000598	CHIP POWER INDUCTOR
	L431	V05GD0000599	CHIP POWER INDUCTOR
	L9031	75003410	FILTER CHIP BEAD INDUCTOR 330H
	L9032	75003410	FILTER CHIP BEAD INDUCTOR 330H
	L912	75003413	FILTER CHIP BEAD 1200HM 0.8A
	L916	75003410	FILTER CHIP BEAD INDUCTOR 330H
	L920	75003410	FILTER CHIP BEAD INDUCTOR 330H
	L921	75003411	FILTER CHIP BEAD INDUCTOR 2200
	L922	75003411	FILTER CHIP BEAD INDUCTOR 2200
	L923	75003411	FILTER CHIP BEAD INDUCTOR 2200
	L924	75003410	FILTER CHIP BEAD INDUCTOR 330H
	L926	75003411	FILTER CHIP BEAD INDUCTOR 2200
	L927	75003411	FILTER CHIP BEAD INDUCTOR 2200
	L928	75003411	FILTER CHIP BEAD INDUCTOR 2200
	L943	75003411	FILTER CHIP BEAD INDUCTOR 2200
	N001	23961276	SOLDER CREAM
	N002	23961260	ER M708E-3.0
	N003	23961257	R M708E 400G
	N004	23961293	S-1061SP-2 C
	N005	23961263	M705ESC 0.6
	N006	23961265	M705ESC 1.0

	N007	23961267	M705ESC 1.6
	N008	23962411	AD EP 3609
	N009	23964124	SOL #4520 UN
	N010	23964899	SOLVENT S-10
	N011	23962432	SR-22530S 25
⚠	PB04A	V28A000318A1	PC BOARD C3000D_SIGNAL
	PJ200	75004070	CONNECTOR W-B 1.5MM 16P V
	PJ22	75001960	1MM PITCH B TO B CONNECTOR
	PJ24	V22GD0000429	1.25MM PITCH BRIDGE CONNECTOR
	PJ404	V22GD0001528	1MM PITCH B TO B CONNECTOR
	PJ80	75003061	CONNECTOR B-B FLOATING 1.25MM
	PJ920	23713949	B-PH-K-S(LF)
	Q324	V41GD0000236	NPN TRANSISTOR
	Q325	V41GD0000232	NPN TRANSISTOR
	Q400	V41GD0000236	NPN TRANSISTOR
	Q920	V41GD0000236	NPN TRANSISTOR
	Q921	V41GD0000236	NPN TRANSISTOR
	R2000	V01GD0000926	CHIP RESISTOR (1608)
	R2001	V01GD0000926	CHIP RESISTOR (1608)
	R2002	V01GD0000926	CHIP RESISTOR (1608)
	R2003	V01GD0000926	CHIP RESISTOR (1608)
	R2005	V01GD0000926	CHIP RESISTOR (1608)
	R2006	V01GD0000926	CHIP RESISTOR (1608)
	R2007	V01GD0000926	CHIP RESISTOR (1608)
	R2010	V01GD0000914	CHIP RESISTOR (1608)
	R2011	V01GD0000914	CHIP RESISTOR (1608)
	R2012	V01GD0000894	CHIP RESISTOR (1608)
	R2013	V01GD0000894	CHIP RESISTOR (1608)
	R2016	V01GD0000926	CHIP RESISTOR (1608)
	R2017	V01GD0000926	CHIP RESISTOR (1608)
	R2018	V01GD0000926	CHIP RESISTOR (1608)
	R2020	V01GD0000926	CHIP RESISTOR (1608)
	R2021	V01GD0000926	CHIP RESISTOR (1608)
	R2022	V01GD0000926	CHIP RESISTOR (1608)
	R2023	V01GD0000926	CHIP RESISTOR (1608)
	R2024	V01GD0000926	CHIP RESISTOR (1608)
	R2025	V01GD0000926	CHIP RESISTOR (1608)
	R2026	V01GD0000926	CHIP RESISTOR (1608)
	R301	V01GD0000924	CHIP RESISTOR (1608)
	R302	V01GD0001670	CHIP RESISTOR (1608)
	R3020	V01GD0001041	CHIP RESISTOR (1608)

	R303	V01GD0000894	CHIP RESISTOR (1608)
	R304	V01GD0000894	CHIP RESISTOR (1608)
	R305	V01GD0000894	CHIP RESISTOR (1608)
	R306	V01GD0000924	CHIP RESISTOR (1608)
	R307	V01GD0000924	CHIP RESISTOR (1608)
	R309	V01GD0000924	CHIP RESISTOR (1608)
	R310	V01GD0000914	CHIP RESISTOR (1608)
	R317	V01GD0000914	CHIP RESISTOR (1608)
	R320	V01GD0000896	CHIP RESISTOR (1608)
	R3201	V01GD0000924	CHIP RESISTOR (1608)
	R3202	V01GD0000924	CHIP RESISTOR (1608)
	R321	V01GD0000896	CHIP RESISTOR (1608)
	R3210	V01GD0000894	CHIP RESISTOR (1608)
	R3216	V01GD0002075	CHIP RESISTOR (1608)
	R3217	V01GD0002075	CHIP RESISTOR (1608)
	R322	V01GD0000896	CHIP RESISTOR (1608)
	R3220	V01GD0001027	CHIP RESISTOR (1608)
	R3221	V01GD0001004	CHIP RESISTOR (1608)
	R323	V01GD0000896	CHIP RESISTOR (1608)
	R3230	V01GD0002075	CHIP RESISTOR (1608)
	R3231	V01GD0002075	CHIP RESISTOR (1608)
	R3232	V01GD0000895	CHIP RESISTOR (1608)
	R3233	V01GD0000895	CHIP RESISTOR (1608)
	R324	V01GD0000896	CHIP RESISTOR (1608)
	R3242	V01GD0000894	CHIP RESISTOR (1608)
	R3244	V01GD0000894	CHIP RESISTOR (1608)
	R325	V01GD0000896	CHIP RESISTOR (1608)
	R3250	V01GD0000915	CHIP RESISTOR (1608)
	R3251	V01GD0000895	CHIP RESISTOR (1608)
	R3252	V01GD0000909	CHIP RESISTOR (1608)
	R3253	V01GD0002069	CHIP RESISTOR (1608)
	R3254	V01GD0000894	CHIP RESISTOR (1608)
	R3255	V01GD0000894	CHIP RESISTOR (1608)
	R326	V01GD0000896	CHIP RESISTOR (1608)
	R327	V01GD0000896	CHIP RESISTOR (1608)
	R328	V01GD0000896	CHIP RESISTOR (1608)
	R329	V01GD0000896	CHIP RESISTOR (1608)
	R3608	V01GD0000895	CHIP RESISTOR (1608)
	R3609	V01GD0001698	CHIP RESISTOR (1608)
	R3610	V01GD0000895	CHIP RESISTOR (1608)
	R3700	V01GD0001012	CHIP RESISTOR (1608)

	R3701	V01GD0001012	CHIP RESISTOR (1608)
	R3702	V01GD0000909	CHIP RESISTOR (1608)
	R3703	V01GD0001107	CHIP RESISTOR (1608)
	R3704	V01GD0000940	CHIP RESISTOR (1608)
	R3705	V01GD0000940	CHIP RESISTOR (1608)
	R3706	V01GD0000909	CHIP RESISTOR (1608)
	R3707	V01GD0000895	CHIP RESISTOR (1608)
	R3708	V01GD0000895	CHIP RESISTOR (1608)
	R3709	V01GD0001107	CHIP RESISTOR (1608)
	R3710	V01GD0002069	CHIP RESISTOR (1608)
	R3711	V01GD0002069	CHIP RESISTOR (1608)
	R380	V01GD0000924	CHIP RESISTOR (1608)
	R381	V01GD0000924	CHIP RESISTOR (1608)
	R400	V01GD0000915	CHIP RESISTOR (1608)
	R4000	V01GD0000894	CHIP RESISTOR (1608)
	R4005	V01GD0000894	CHIP RESISTOR (1608)
	R4006	V01GD0000894	CHIP RESISTOR (1608)
	R4007	V01GD0000894	CHIP RESISTOR (1608)
	R4008	V01GD0000894	CHIP RESISTOR (1608)
	R4009	V01GD0000894	CHIP RESISTOR (1608)
	R401	V01GD0000915	CHIP RESISTOR (1608)
	R4010	V01GD0000894	CHIP RESISTOR (1608)
	R4011	V01GD0000894	CHIP RESISTOR (1608)
	R4012	V01GD0000894	CHIP RESISTOR (1608)
	R4013	V01GD0000894	CHIP RESISTOR (1608)

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	Location	Parts No.	Description
✱	U05A	75005865	PC BOARD ASSY, PE0284A1, EU_DIGITAL
	C1401	V03GD0001170	CHIP CERAMIC CAPACITOR (2012)
	C1402	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1403	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1404	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1406	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1410	V03GD0000543	CHIP CERAMIC CAPACITOR (1608)
	C1411	V03GD0000549	CHIP CERAMIC CAPACITOR (1608)
	C1412	V03GD0000549	CHIP CERAMIC CAPACITOR (1608)
	C1413	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1414	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1415	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1416	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1417	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1418	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1419	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1420	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1421	V03GD0000543	CHIP CERAMIC CAPACITOR (1608)
	C1424	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1425	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1426	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1427	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1428	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1429	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1430	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1431	V03GD0000582	CHIP CERAMIC CAPACITOR (1608)
	C1601	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1602	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1603	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1604	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1701	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1702	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1703	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1704	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1705	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1706	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1707	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1708	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1709	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)

	C1710	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1711	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1712	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1713	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1714	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1715	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1716	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1717	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1718	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1719	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1720	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1721	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1722	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1723	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1724	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1725	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1726	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1727	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1801	V03GD0000716	CHIP CERAMIC CAPACITOR (1608)
	C1802	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1803	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1804	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1901	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1902	75005812	CHIP CERAMIC CAPACITOR (1005)
	C1903	75005812	CHIP CERAMIC CAPACITOR (1005)
	C1904	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C1905	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C1906	V03GD0000842	CHIP CERAMIC CAPACITOR (1005)
	C1908	V03GD0000707	CHIP CERAMIC CAPACITOR (1608)
	C2001	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2101	75005813	CHIP CERAMIC CAPACITOR (1005)
	C2102	75005813	CHIP CERAMIC CAPACITOR (1005)
	C2201	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2202	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2203	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2204	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2205	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2206	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2207	V03GD0000771	CHIP CERAMIC CAPACITOR (1005)
	C2208	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2209	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)

	C2210	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2211	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2212	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2213	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2302	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2303	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2304	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2305	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C2306	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2307	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2308	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2309	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2310	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2401	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C2402	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2403	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2404	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2405	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C2501	V03GD0000828	CHIP CERAMIC CAPACITOR (1005)
	C2502	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C2503	V03GD0001089	CHIP OS-CON (SVPC)
	C2504	V03GD0000828	CHIP CERAMIC CAPACITOR (1005)
	C2505	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2506	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C2801	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C301	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C302	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C303	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C305	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C306	V03GD0001170	CHIP CERAMIC CAPACITOR (2012)
	C307	V03GD0000840	CHIP CERAMIC CAPACITOR (2012)
	C308	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C309	V03GD0000763	CHIP CERAMIC CAPACITOR (1005)
	C310	V03GD0000798	CHIP CERAMIC CAPACITOR (1005)
	C311	V03GD0000798	CHIP CERAMIC CAPACITOR (1005)
	C312	V03GD0000833	CHIP CERAMIC CAPACITOR (1005)
	C313	V03GD0000833	CHIP CERAMIC CAPACITOR (1005)
	C314	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C315	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C316	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C317	V03GD0000740	CHIP CERAMIC CAPACITOR (3216)

	C318	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C319	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C320	V03GD0000740	CHIP CERAMIC CAPACITOR (3216)
	C401	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C402	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C403	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C404	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C405	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C406	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C421	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C422	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C431	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C432	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C433	V03GD0000765	CHIP CERAMIC CAPACITOR (1005)
	C434	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C441	V03GD0000573	CHIP CERAMIC CAPACITOR (1608)
	C442	V03GD0000707	CHIP CERAMIC CAPACITOR (1608)
	C443	V03GD0000573	CHIP CERAMIC CAPACITOR (1608)
	C444	V03GD0000573	CHIP CERAMIC CAPACITOR (1608)
	C445	V03GD0001142	CHIP CERAMIC CAPACITOR (1005)
	C446	V03GD0000573	CHIP CERAMIC CAPACITOR (1608)
	C611	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C613	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C614	75005813	CHIP CERAMIC CAPACITOR (1005)
	C615	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C800	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C801	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C802	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C803	V03GD0000790	CHIP CERAMIC CAPACITOR (1005)
	C804	V03GD0000790	CHIP CERAMIC CAPACITOR (1005)
	C805	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C806	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C807	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C808	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C809	V03GD0000767	CHIP CERAMIC CAPACITOR (1005)
	C810	V03GD0000767	CHIP CERAMIC CAPACITOR (1005)
	C811	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C812	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C813	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C814	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C815	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)

	C816	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C817	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C818	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C819	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C820	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C821	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C822	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C823	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C824	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C825	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C826	V03GD0000734	CHIP CERAMIC CAPACITOR (2012)
	C828	V03GD0000843	CHIP CERAMIC CAPACITOR (1005)
	C829	V03GD0000843	CHIP CERAMIC CAPACITOR (1005)
	C830	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C831	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C834	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C835	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C836	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C837	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C838	75005811	CHIP CERAMIC CAPACITOR (2012)
	C839	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C840	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C901	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C903	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C904	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C905	75002271	CHIP CERAMIC CAPACITOR (1005)
	C906	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C907	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C908	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C909	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C910	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C911	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C912	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C913	V03GD0001093	CHIP ALUMINUM ELECTROLYTIC CAP
	C914	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C915	V03GD0001157	CHIP CERAMIC CAPACITOR (2012)
	C916	75002271	CHIP CERAMIC CAPACITOR (1005)
	C917	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C918	V03GD0000786	CHIP CERAMIC CAPACITOR (1005)
	C951	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C952	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)

	C953	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C954	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C955	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C956	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C957	75005814	CHIP CERAMIC CAPACITOR (2012)
	C958	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C959	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C960	V03GD0000729	CHIP CERAMIC CAPACITOR (2012)
	C961	V03GD0000776	CHIP CERAMIC CAPACITOR (1005)
	C962	V03GD0000716	CHIP CERAMIC CAPACITOR (1608)
	D2100	V42GD0000170	SWICHING DIODE
	D2101	V42GD0000170	SWICHING DIODE
	DS111	V44GD0000105	LED
	DS112	V44GD0000105	LED
	FL141	75005866	COIL CHIP INDUCTOR
	FL144	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL145	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL146	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL147	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL148	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL149	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL150	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL151	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL152	V01GD0001702	CHIP JUMPER 1608TYPE
	FL154	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	FL155	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	FL161	V13GD0000299	CHIP BEADS INDUCTOR (1608)
	FL162	V13GD0000299	CHIP BEADS INDUCTOR (1608)
	FL181	V01GD0001702	CHIP JUMPER 1608TYPE
	FL191	V13GD0000299	CHIP BEADS INDUCTOR (1608)
	FL192	V13GD0000246	CHIP BEADS INDUCTOR
	FL193	V13GD0000246	CHIP BEADS INDUCTOR
	FL211	75005818	FILTER CHIP BEAD INDUCTOR 600O
	FL212	75005818	FILTER CHIP BEAD INDUCTOR 600O
	FL213	V01GD0001702	CHIP JUMPER 1608TYPE
	FL214	75005818	FILTER CHIP BEAD INDUCTOR 600O
	FL215	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	FL301	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	FL302	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	FL305	V01GD0001702	CHIP JUMPER 1608TYPE
	FL306	V01GD0001702	CHIP JUMPER 1608TYPE

	FL307	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL308	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL610	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL611	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	FL612	V13GD0000251	CHIP BEADS INDUCTOR (1608)
	FL805	75005817	FILTER CHIP BEAD INDUCTOR 6000
	FL806	75005817	FILTER CHIP BEAD INDUCTOR 6000
	FL808	75005817	FILTER CHIP BEAD INDUCTOR 6000
	FL809	75005817	FILTER CHIP BEAD INDUCTOR 6000
	FL901	V01GD0001702	CHIP JUMPER 1608TYPE
	FL902	V01GD0002067	CHIP RESISTOR (2012)
	FL903	V01GD0001702	CHIP JUMPER 1608TYPE
	FL904	V01GD0002067	CHIP RESISTOR (2012)
	FL905	V01GD0001702	CHIP JUMPER 1608TYPE
	FL906	V01GD0001702	CHIP JUMPER 1608TYPE
	FL907	V01GD0001702	CHIP JUMPER 1608TYPE
	FL951	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL952	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL953	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL954	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL955	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL956	V13A00000400	FILTER
	FL957	V13A00000400	FILTER
	FL958	V13A00000400	FILTER
	FL959	V13A00000400	FILTER
	FL960	V13A00000400	FILTER
	FL964	V01GD0001702	CHIP JUMPER 1608TYPE
	FL965	V01GD0001702	CHIP JUMPER 1608TYPE
	FL966	V01GD0001702	CHIP JUMPER 1608TYPE
	FL970	V13A00000400	FILTER
	FL971	V13GD0000252	CHIP BEADS INDUCTOR (1608)
	FL972	V13A00000400	FILTER
	IC100	75005824	IC DIGITAL TV SYSTEM LSI
	IC181	V47GD0000938	CMOS RESET IC
	IC182	V45GD0000442	2 INPUT AND GATE
	IC183	V45GD0000442	2 INPUT AND GATE
	IC191	75005830	IC VCXO
	IC201	75002152	64(8X8)KBIT SERIAL EEPROM
	IC221	75005826	IC 256M(16MX16)BIT DDR SDRAM
	IC251	75005829	IC DDR LINEAR REGULATOR
	IC281	75005828	IC 64M(4MX16)BIT FLASH MEMORY

	IC301	V47GD0000571	AUDIO D/A CONVERTER
	IC302	V47GD0000998	DUAL AUDIO OP AMP
	IC401	75005823	IC DVB-CI CONTROLLER
	IC421	75005822	IC OCTAL D-TYPE LATCH
	IC422	75005822	IC OCTAL D-TYPE LATCH
	IC431	V45GD0000413	OCTAL BUS BUFFER
	IC432	V45GD0000420	OCTAL BUFFER/LINE DRIVER
	IC433	75001217	INVERTER
	IC434	V45GD0000490	DUAL 2-INPUT OR GATE
	IC441	75005834	IC CURRENT-LIMITED SWITCH
	IC442	V47A00006100	IC LOW VOLTAGE REGULATOR
	IC801	75005827	IC COFDM DEMODURATOR
	IC901	75005831	IC VOLTAGE REGULATOR
	IC902	75002292	IC
	IC903	V47A00001300	IC
	IC904	75005833	IC VOLTAGE REGULATOR
	IC905	75005832	IC VOLTAGE REGULATOR
	IC906	V47GD0000817	VOLTAGE REGULATOR
	N001	23961276	SOLDER CREAM
	N002	23961260	ER M708E-3.0
	N004	23961293	S-1061SP-2 C
	N005	23961263	M705ESC 0.6
	N006	23961265	M705ESC 1.0
	P200B	75004070	CONNECTOR W-B 1.5MM 16P V
	P212B	V22GD0000971	2.5PITCH NYLON CONNECTOR
	P820A	75005820	2.5PITCH NYLON CONNECTOR
⚠	PB05A	V28A000319A1	PC BOARD C3000D_DIGITAL
	PJ142	V44GD0000155	FIBER-OPTIC
	PJ212	75005819	CONNECTOR W-B 2.5MM 4P ANGLE
	PJ400	75005821	SOCKET PC CARD
	PJ401	23845833	CLAMPER
	PJ402	23845833	CLAMPER
	Q181	V41GD0000246	N-CH MOS FET
	Q350	V41GD0000293	NPN SILICON EPITAXIAL PLANAR T
	Q351	V41GD0000237	NPN/PNP TRANSISTOR
	Q401	V41GD0000236	NPN TRANSISTOR
	Q441	V41GD0000236	NPN TRANSISTOR
	Q611	V41GD0000236	NPN TRANSISTOR
	Q801	V41GD0000236	NPN TRANSISTOR
	Q802	V41GD0000236	NPN TRANSISTOR
	Q951	V41GD0000236	NPN TRANSISTOR

	Q952	V41GD0000249	P-CH MOS FET
	Q953	V41GD0000249	P-CH MOS FET
	Q954	V41GD0000249	P-CH MOS FET
	R1101	V01GD0001294	CHIP RESISTOR (1005)
	R1102	V01GD0001294	CHIP RESISTOR (1005)
	R1103	V01GD0002207	CHIP JUMPER 1005TYPE
	R1104	V01GD0001294	CHIP RESISTOR (1005)
	R1108	V01GD0001750	CHIP RESISTOR (1005)
	R1201	V01GD0001750	CHIP RESISTOR (1005)
	R1202	V01GD0001750	CHIP RESISTOR (1005)
	R1301	V01GD0001750	CHIP RESISTOR (1005)
	R1401	V01GD0002207	CHIP JUMPER 1005TYPE
	R1402	V01GD0001298	CHIP RESISTOR (1005)
	R1403	75005803	CHIP RESISTOR (1005)
	R1404	75005810	CHIP RESISTOR (1005)
	R1405	75005810	CHIP RESISTOR (1005)
	R1406	75005810	CHIP RESISTOR (1005)
	R1407	V01GD0001737	CHIP RESISTOR (1005)
	R1408	V01GD0001750	CHIP RESISTOR (1005)
	R1411	V01GD0001750	CHIP RESISTOR (1005)
	R1412	V01GD0001750	CHIP RESISTOR (1005)
	R1414	V01GD0001736	CHIP RESISTOR (1005)
	R1415	V01GD0001750	CHIP RESISTOR (1005)
	R1416	V01GD0001750	CHIP RESISTOR (1005)
	R1418	V01GD0001750	CHIP RESISTOR (1005)
	R1420	V01GD0001750	CHIP RESISTOR (1005)
	R1801	V01GD0001739	CHIP RESISTOR (1005)
	R1802	V01GD0001739	CHIP RESISTOR (1005)
	R1803	75005805	CHIP RESISTOR (1005)
	R1804	V01GD0001739	CHIP RESISTOR (1005)
	R1806	V01GD0001739	CHIP RESISTOR (1005)
	R1814	V01GD0001739	CHIP RESISTOR (1005)
	R1816	V01GD0002077	CHIP RESISTOR (1005)
	R1817	V01GD0001451	CHIP RESISTOR (1005)
	R1818	V01GD0001288	CHIP RESISTOR (1005)
	R1820	V01GD0001758	CHIP RESISTOR (1005)
	R1901	75005805	CHIP RESISTOR (1005)
	R1902	V01GD0002207	CHIP JUMPER 1005TYPE
	R1906	V01GD0001746	CHIP RESISTOR (1005)
	R2001	V01GD0001692	CHIP RESISTOR (1005)
	R2002	V01GD0001692	CHIP RESISTOR (1005)

	R2011	V01GD0001739	CHIP RESISTOR (1005)
	R2012	V01GD0001739	CHIP RESISTOR (1005)
	R2101	V01GD0001750	CHIP RESISTOR (1005)
	R2103	V01GD0001750	CHIP RESISTOR (1005)
	R2105	V01GD0001736	CHIP RESISTOR (1005)
	R2106	V01GD0001736	CHIP RESISTOR (1005)
	R2107	V01GD0001736	CHIP RESISTOR (1005)
	R2109	V01GD0001736	CHIP RESISTOR (1005)
	R2110	V01GD0001736	CHIP RESISTOR (1005)
	R2112	V01GD0001750	CHIP RESISTOR (1005)
	R2201	V01GD0001736	CHIP RESISTOR (1005)
	R2202	V01GD0001736	CHIP RESISTOR (1005)
	R2203	V01GD0001736	CHIP RESISTOR (1005)
	R2204	V01GD0001736	CHIP RESISTOR (1005)
	R2301	V01GD0001740	CHIP RESISTOR (1005)
	R2302	V01GD0001740	CHIP RESISTOR (1005)
	R2303	V01GD0001740	CHIP RESISTOR (1005)

Miscellaneous

	Location	Parts No.	Description
⚠	B001	75004518	LCD PANEL, LC370WU1-SL03
	H001	75005892	TUNER, ENGF7702GF
	H001A	23368919	CABLE, PHONO 2.5C 250MM, C4-0807ALI
	H801	75005835	TUNER, TDQD4
	MZ01	75006851	WIRE HARNESS, LVDS, V90A00047400
⚠	P801	23372353	POWER CORD, UK 250V3A FL/FUSE13
⚠	P801	23372368	POWER CORD, CEE FL M5206 250V2 206 - 2.3M HOUSING
	PJ22B	75002683	CONNECTOR, 1MM PITCH B TO B, 237702150K4
	PP02	23974994	BAND, KESSOKU
	PP08	23974994	BAND, KESSOKU
	W661	75005717	SPEAKER ASSY, SPK1493AO, 60X120 8-OHM 10W
	Z801	23103778	FERRITE CORE, TFE1008
	Z820	23103840	FERRITE CORE, TFE1013
	ZJ200	23103840	FERRITE CORE, TFE1013

Miscellaneous

	Location	Parts No.	Description
⚠	B001	75004518	LCD PANEL, LC370WU1-SL03
	H001	75005892	TUNER, ENGF7702GF
	H001A	23368919	CABLE, PHONO 2.5C 250MM, C4-0807ALI
	H801	75005835	TUNER, TDQD4
	MZ01	75006851	WIRE HARNESS, LVDS, V90A00047400
⚠	P801	23372353	POWER CORD, UK 250V3A FL/FUSE13
⚠	P801	23372368	POWER CORD, CEE FL M5206 250V2 206 - 2.3M HOUSING
	PJ22B	75002683	CONNECTOR, 1MM PITCH B TO B, 237702150K4
	PP02	23974994	BAND, KESSOKU
	PP08	23974994	BAND, KESSOKU
	W661	75005717	SPEAKER ASSY, SPK1493AO, 60X120 8-OHM 10W
	Z801	23103778	FERRITE CORE, TFE1008
	Z820	23103840	FERRITE CORE, TFE1013
	ZJ200	23103840	FERRITE CORE, TFE1013

Accessory

	Location	Parts No.	Description
⚠	Y101	75005903	OWNERS MANUAL, ENGLISH
⚠	Y101E	75005900	OWNERS MANUAL, EURO
	Y105	75006526	OWNERS MANUAL, LICENCE INFORMATION BOOK
	Y110	75005902	OWNERS MANUAL, QSUG
	Y114	75005904	SCHEMATIC DIAGRAM
	Y130	75005891	REMOCON HAND UNIT, CT-90273
	Y170	23845800	HOLDER, WIRE, NYLON66 D6.8

Cabinet

	Location	Parts No.	Description
	A206	75008886	FRONT BEZEL ASSY WITH DECORATIVE PLATE
	A320	75005894	PIECE, CTRL S ASSY
	A380	23717240	SCREW, BITTB3X10SZN
⚠	A401	75005965	BACK COVER ASSY
	A411	23717267	SCREW, BITTB4X16 SBN
	A412	23717214	SCREW, BITTB3X12SBN
	A420	75006051	LEG STAND KIT FIX
	A425	75006696	LEG FIX BKT ASSY FIX
	A426	75006697	LEG BASE ASSY FIX SS
	A427	75006698	LEG SCREW CAP PP 6*20 SBN
	A428	23717177	LEG SCREW CAP PP 5*12 SBN
	A429	75007210	LEG STAND WRENCH
	A430	75005733	PIECE CLAMP HOLDER

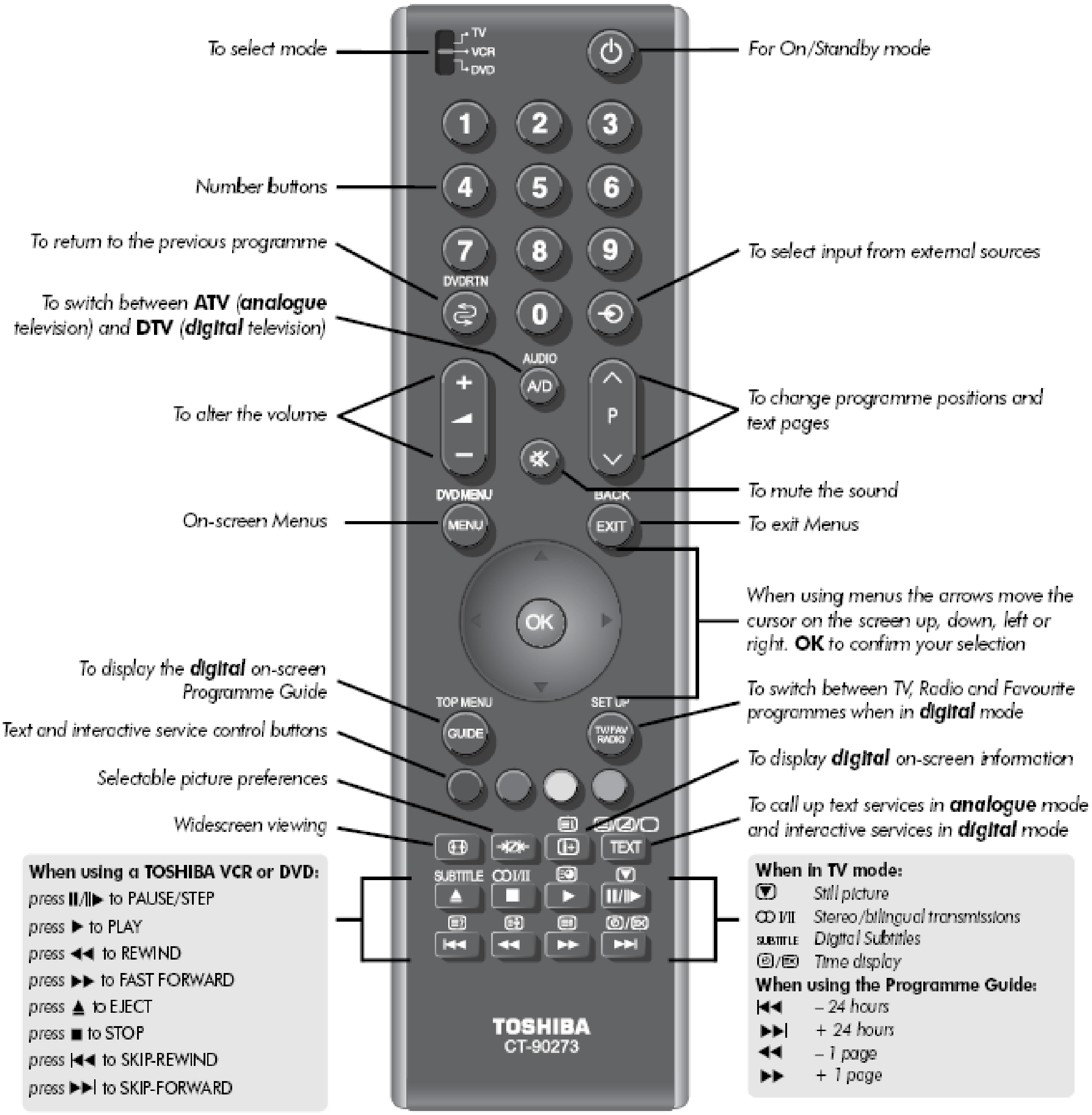
Packing

	Location	Parts No.	Description
	A701A	75006855	CARTON BOX, TOP
	A701B	75006856	PAD, BOTTOM CASE
	A702A	75006853	PAD, TOP PACKING
	A702B	75006854	PAD, BOTTOM PACKING
	A705	23518043	PACKING, JOINT

FUNCTION AND OPERATION

The Remote Control

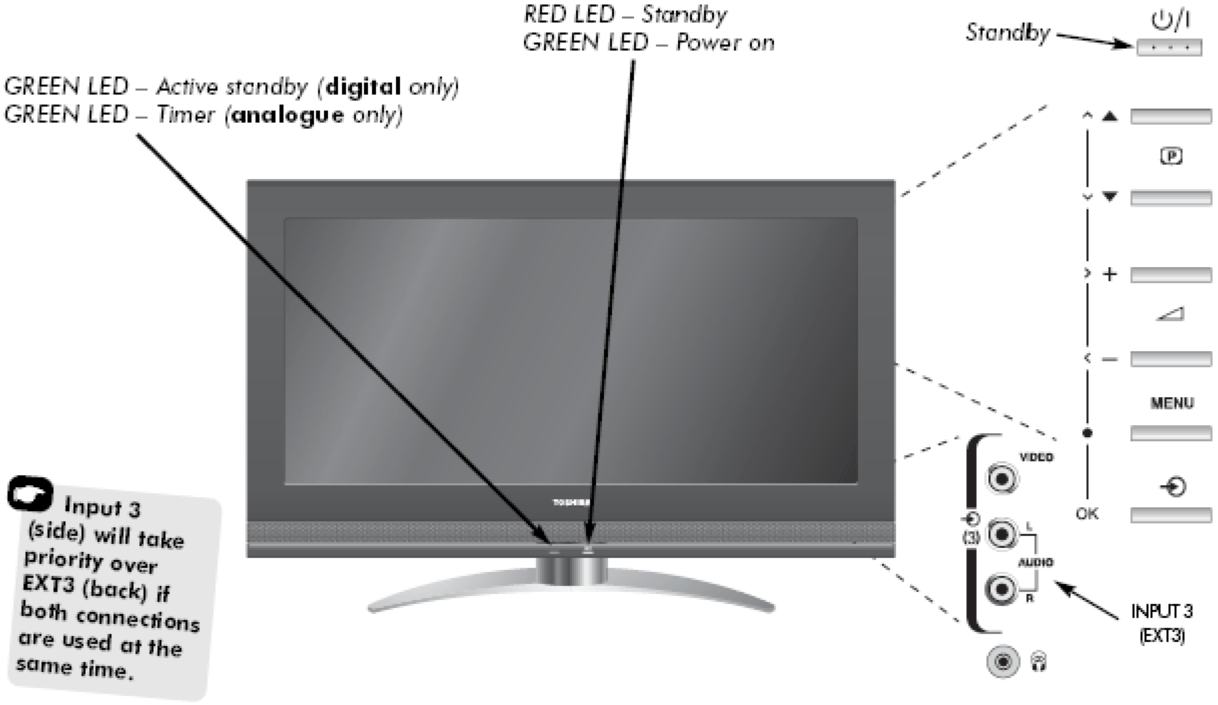
Simple at-a-glance reference of your remote control.


To select mode
TV
VCR
DVD
For On/Standby mode
Number buttons
To return to the previous programme
To select input from external sources
DVDRTN
To switch between **ATV** (**analogue** television) and **DTV** (**digital** television)
AUDIO
A/D
To alter the volume
To change programme positions and text pages
P
To mute the sound
DVD MENU
MENU
BACK
EXIT
On-screen Menus
To exit Menus
OK
When using menus the arrows move the cursor on the screen up, down, left or right. **OK** to confirm your selection
To display the **digital** on-screen Programme Guide
TOP MENU
GUIDE
SET UP
TV/FAV RADIO
To switch between TV, Radio and Favourite programmes when in **digital** mode
Text and interactive service control buttons
To display **digital** on-screen information
Selectable picture preferences
Widescreen viewing
To call up text services in **analogue** mode and interactive services in **digital** mode
TEXT
SUBTITLE
I/II
TOSHIBA
CT-90273
When using a TOSHIBA VCR or DVD:
press II/II▶ to PAUSE/STEP
press ▶ to PLAY
press ◀◀ to REWIND
press ▶▶ to FAST FORWARD
press ▲ to EJECT
press ■ to STOP
press I◀◀ to SKIP-REWIND
press ▶▶I to SKIP-FORWARD
When in TV mode:
Still picture
I/II Stereo/bilingual transmissions
SUBTITLE Digital Subtitles
Time display
When using the Programme Guide:
I◀◀ – 24 hours
▶▶I + 24 hours
◀◀ – 1 page
▶▶ + 1 page

FUNCTION AND OPERATION

Control and Input Connection

A wide variety of external equipment can be connected to the input sockets on the side of the television.
Whilst all the necessary adjustments and controls for the television are made using the remote control, the buttons on the television may be used for some functions.


RED LED – Standby
GREEN LED – Power on
GREEN LED – Active standby (**digital** only)
GREEN LED – Timer (**analogue** only)
Standby
⏻/I
P
+
–
MENU
OK
VIDEO
(3)
L
AUDIO
R
INPUT 3
(EXT3)
TOSHIBA

Input 3 (side) will take priority over EXT3 (back) if both connections are used at the same time.

Switching On

If the RED LED is unlit check that the mains plug is connected to the power supply. If the picture does not appear press ⏻ on the remote control, it may take a few moments.

To put the television into Standby press ⏻ on the remote control, the GREEN active standby LED will appear (see *'Software Upgrade'* section) next to the RED for a few moments then disappear. To view the television press ⏻ again. The picture may take a few seconds to appear.

Using the Remote Control

Press the **MENU** button on the remote control to see the menus.

In **digital** mode the menu bar at the top of the screens will show three different topics shown in symbols. As each symbol is selected by pressing the ◀ or ▶ button on the remote control, its respective options will appear below.

In **analogue** mode the menu appears as a list of five topics. As each symbol is selected by pressing the ◀ or ▶ button on the remote control, its respective options will appear below.

To use the options press the ▲ and ▼ button on the remote control to move up and down through them and **OK**, ◀ or ▶ to select the required choice. Follow the on screen instructions. The functions of each menu are described in detail throughout the manual.

Using the Control and Connection

To alter the volume press — ⊿ +.

To alter the programme position press ▼ Ⓟ ▲.

Press **MENU** and ❮, ❯, ⌄ or ⌃ to control the sound and picture options.

Press **MENU** twice to finish.

When connecting sound equipment to **EXT3**, connect the audio output of the equipment to the phono sockets on the television.

To select the Input, press ⊕ until the display shows **EXT3**. The television will automatically sense the type of signal.

Please always refer to the owner's manual of the equipment to be connected for full details.

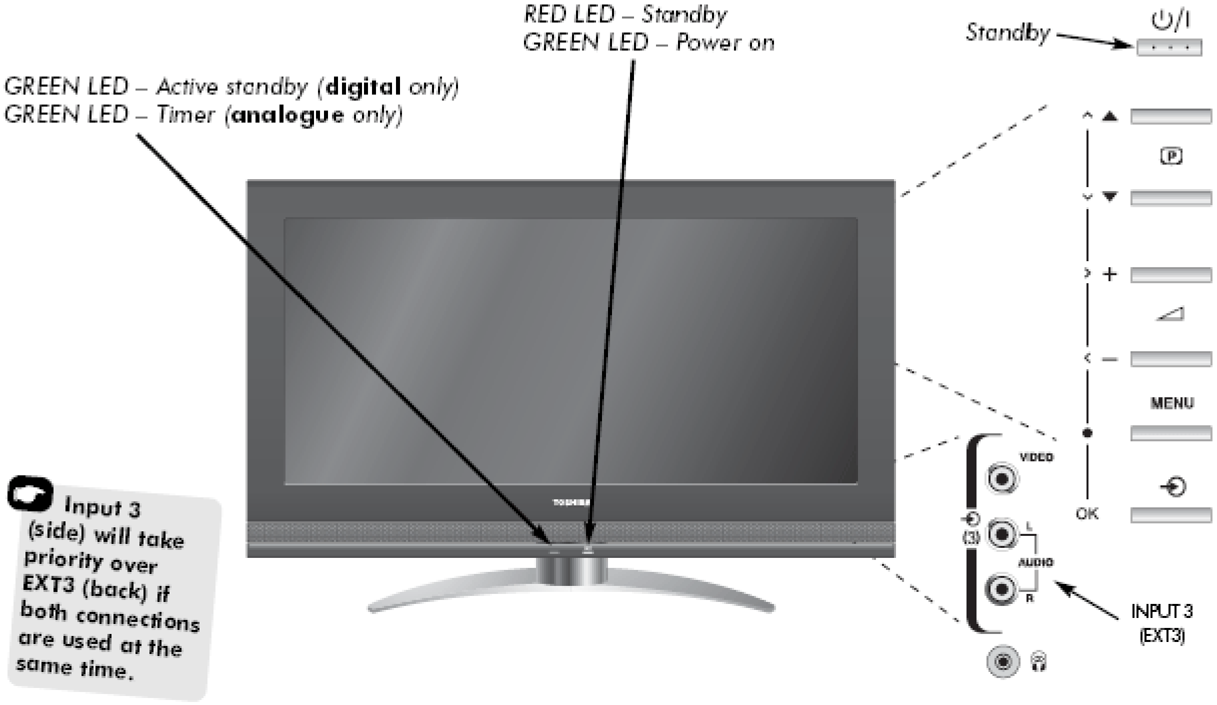
Please note: Inserting the headphone plug will mute the sound from all speakers.

FUNCTION AND OPERATION

Control and Input Connection

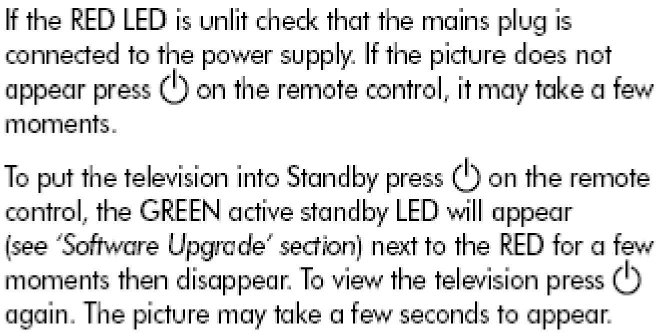
A wide variety of external equipment can be connected to the input sockets on the side of the television.

Whilst all the necessary adjustments and controls for the television are made using the remote control, the buttons on the television may be used for some functions.


RED LED – Standby
GREEN LED – Power on
GREEN LED – Active standby (**digital** only)
GREEN LED – Timer (**analogue** only)
Standby
⏻/I
P
MENU
OK
VIDEO
(3)
L
AUDIO
R
INPUT 3
(EXT3)
TOSHIBA

Input 3 (side) will take priority over EXT3 (back) if both connections are used at the same time.

Switching On



If the RED LED is unlit check that the mains plug is connected to the power supply. If the picture does not appear press ⏻ on the remote control, it may take a few moments.

To put the television into Standby press ⏻ on the remote control, the GREEN active standby LED will appear (see *'Software Upgrade'* section) next to the RED for a few moments then disappear. To view the television press ⏻ again. The picture may take a few seconds to appear.

Using the Remote Control

Press the **MENU** button on the remote control to see the menus.

In **digital** mode the menu bar at the top of the screens will show three different topics shown in symbols. As each symbol is selected by pressing the ◀ or ▶ button on the remote control, its respective options will appear below.

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To use the options press the ▲ and ▼ button on the remote control to move up and down through them and **OK**, ◀ or ▶ to select the required choice. Follow the on screen instructions. The functions of each menu are described in detail throughout the manual.

Using the Control and Connection

To alter the volume press — ⊿ +.

To alter the programme position press ▼ Ⓟ ▲.

Press **MENU** and ❮, ❯, ⌄ or ⌃ to control the sound and picture options.

Press **MENU** twice to finish.

When connecting sound equipment to **EXT3**, connect the audio output of the equipment to the phono sockets on the television.

To select the Input, press ⊕ until the display shows **EXT3**. The television will automatically sense the type of signal.

Please always refer to the owner's manual of the equipment to be connected for full details.

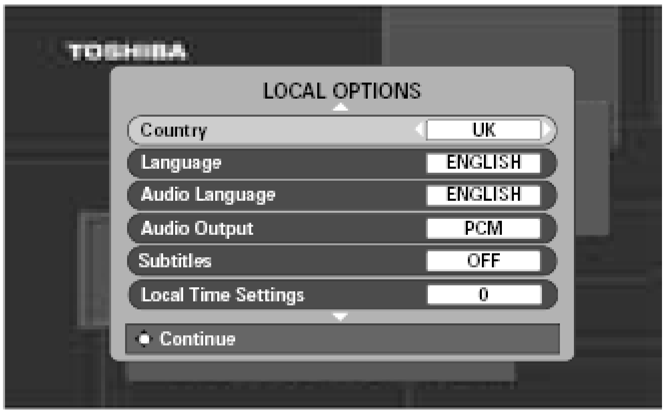
Please note: Inserting the headphone plug will mute the sound from all speakers.

FUNCTION AND OPERATION

Tuning Digital Television for the First Time

Before switching on the television put your decoder and media recorder to **Standby** if they are connected and ensure the aerial is connected. To set up the television use the buttons on the remote control.

1 Press the ⏻ button, the **LOCAL OPTIONS** screen will appear. This screen will appear the first time that the television is switched on and each time the television is reset.



Country UK
Language ENGLISH
Audio Language ENGLISH
Audio Output PCM
Subtitles OFF
Local Time Settings 0

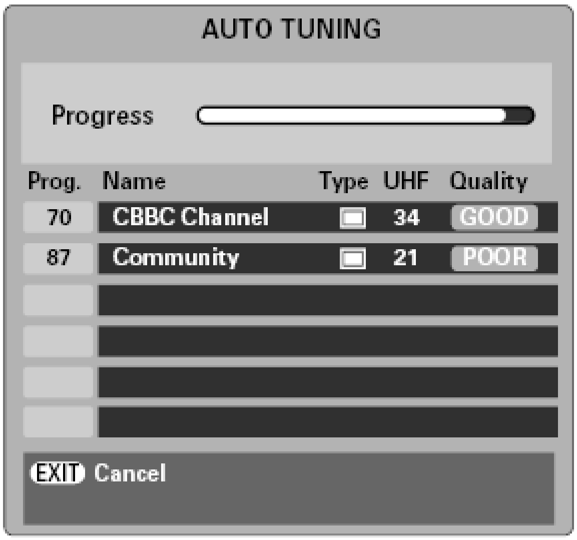
2 Press ▼ to highlight **Country** and ◀ or ▶ to select. The television will now tune the stations for your country.

3 Using ▼ highlight **Language**, then ◀ or ▶ to select.

4 Press **OK** to start tuning.

The **AUTO TUNING** screen will appear and the television will start to search for available stations. The progress bar will move along the line.

You must allow the television to complete the search.



AUTO TUNING

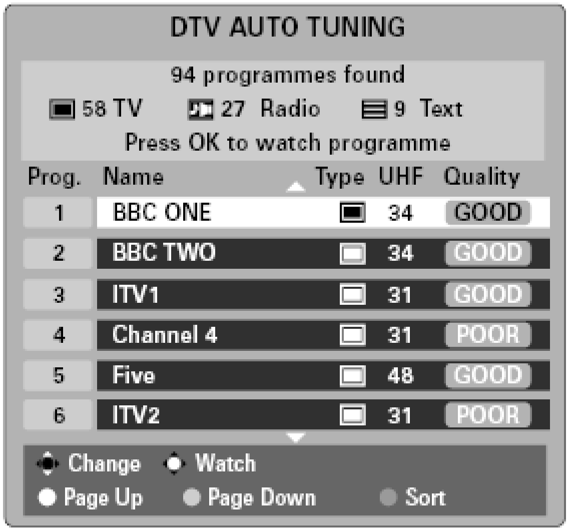
Progress

Prog.	Name	Type	UHF	Quality
70	CBBC Channel	▭	34	GOOD
87	Community	▭	21	POOR

EXIT Cancel

When the search is complete the television will automatically select programme one.

The **AUTO TUNING** screen will display the total number of services found.



DTV AUTO TUNING

94 programmes found

58 TV 27 Radio 9 Text

Press OK to watch programme

Prog.	Name	Type	UHF	Quality
1	BBC ONE	▣	34	GOOD
2	BBC TWO	▭	34	GOOD
3	ITV1	▭	31	GOOD
4	Channel 4	▭	31	POOR
5	Five	▭	48	GOOD
6	ITV2	▭	31	POOR

Change Watch

● Page Up ● Page Down ● Sort

5 Use ▼ or ▲ to move through the list to select a programme then press **OK** to view.

NOTE: The time will be set automatically by transmission but can be advanced or decreased by up to 2 hours using **Local Time Settings**.

FUNCTION AND OPERATION

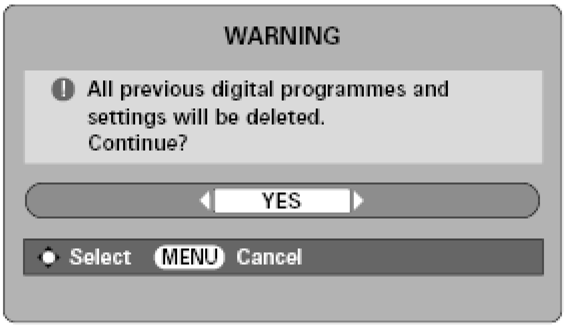
Digital Auto Tuning

Note: As new services are broadcast it will be necessary to re-tune the television in order to view them.

Auto Tuning

Auto tuning *will completely re-tune the television and can be used to up date the channel list.* ***It is recommended that Auto tuning is run periodically to ensure that all new services are added.*** *All current programmes and settings, i.e. favourites and locked programmes, will be lost.*

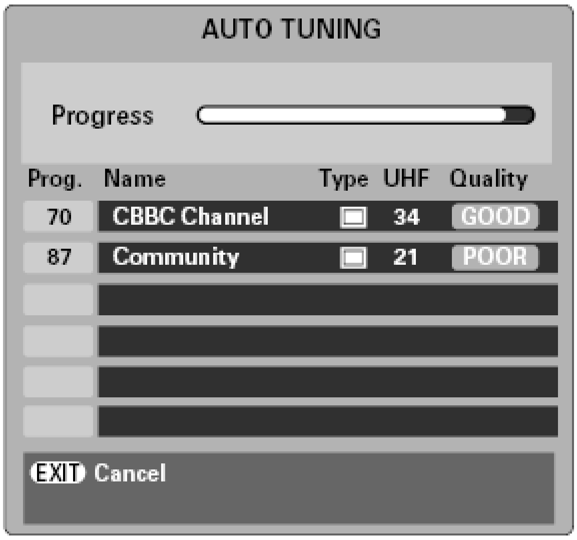
1. Press **MENU**, the **SETUP MENU** will appear. Use ▼to highlight **Auto tuning**. Press **OK**.
2. A screen will appear warning that previous digital programmes and settings will be deleted. Press **OK** to continue with the **Auto tuning**.



WARNING

All previous digital programmes and settings will be deleted. Continue?

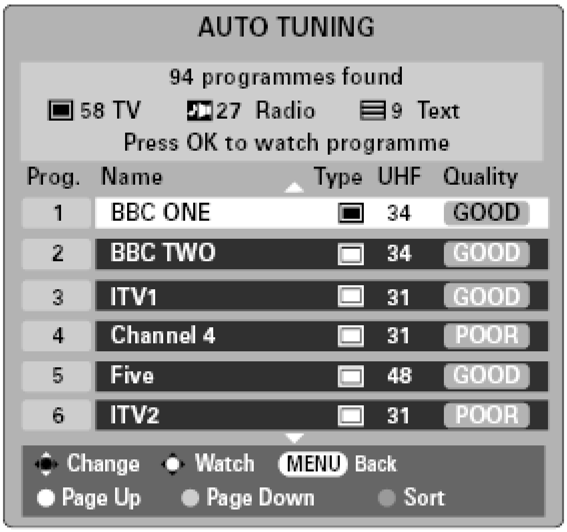
The television will start to search for all available stations.


AUTO TUNING
Progress
EXIT Cancel

Prog.	Name	Type	UHF	Quality
70	CBBC Channel	□	34	GOOD
87	Community	□	21	POOR

You must allow the television to complete the search.

When the search is complete the **Auto tuning** screen will display the total number of services found.


AUTO TUNING
Change
Watch
MENU Back
Page Up
Page Down
Sort

94 programmes found

58 TV 27 Radio 9 Text

Press OK to watch programme

Prog.	Name	Type	UHF	Quality
1	BBC ONE	▣	34	GOOD
2	BBC TWO	□	34	GOOD
3	ITV1	□	31	GOOD
4	Channel 4	□	31	POOR
5	Five	□	48	GOOD
6	ITV2	□	31	POOR

3 Use ▼ or ▲ to move through the list to select a programme then press **OK** to view.

FUNCTION AND OPERATION

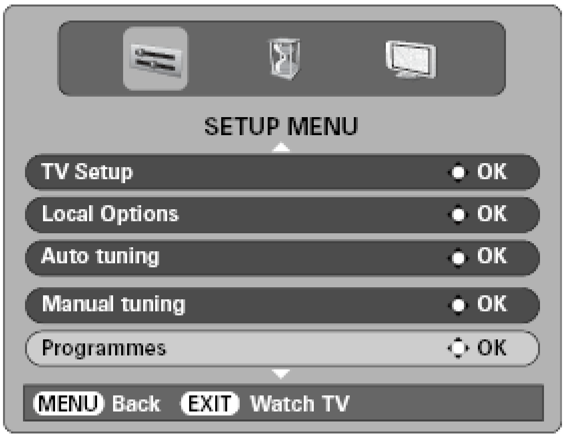
Digital Programme Sorting, Manual Tuning

Note: When the television is switched off the mode being viewed at the time will automatically be selected when the television is switched back on.

Programme Sorting

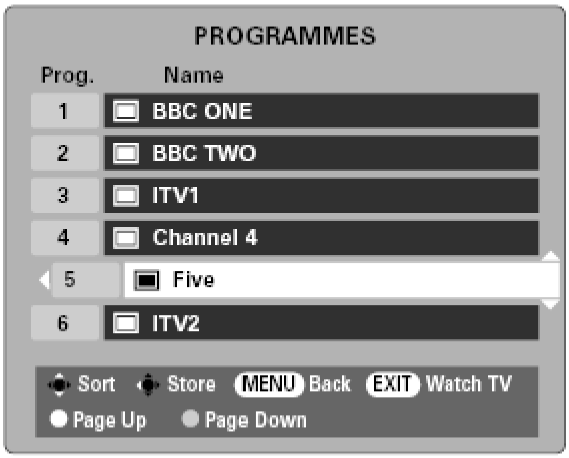
1. The station order may be changed to suit personal preference. Press **MENU**, the **SETUP MENU** will appear on screen.

2. Use ▼ to move down through the list and highlight **Programmes**. Press **OK**.


SETUP MENU
TV Setup ● OK
Local Options ● OK
Auto tuning ● OK
Manual tuning ● OK
Programmes OK
MENU Back
EXIT Watch TV

3. With the list of stations now showing use ▼ or ▲ to highlight the station you want to move and press ▶.

The selected station will be moved to the right of the screen.


PROGRAMMES

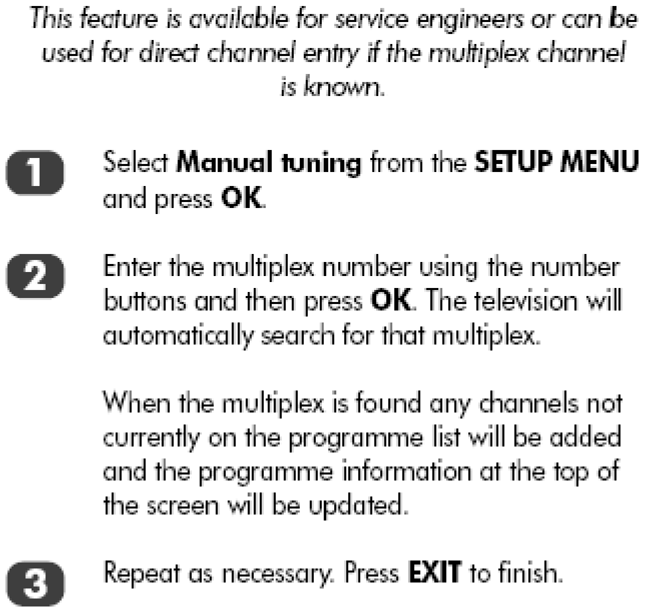
Prog.	Name
1	BBC ONE
2	BBC TWO
3	ITV1
4	Channel 4
5	Five
6	ITV2

Sort
Store
MENU Back
EXIT Watch TV
● Page Up
● Page Down

4. Use ▼ or ▲ to move through the list to your *preferred* position. As you do so the other stations will move to make room.

5. Press ◀ to store your move. Repeat as necessary, then press **EXIT**.

Manual Tuning



This feature is available for service engineers or can be used for direct channel entry if the multiplex channel is known.

1. Select **Manual tuning** from the **SETUP MENU** and press **OK**.
2. Enter the multiplex number using the number buttons and then press **OK**. The television will automatically search for that multiplex.

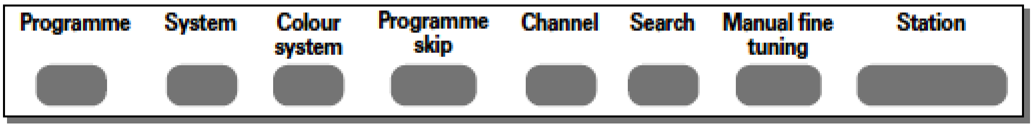
   When the multiplex is found any channels not currently on the programme list will be added and the programme information at the top of the screen will be updated.
3. Repeat as necessary. Press **EXIT** to finish.

FUNCTION AND OPERATION

Analogue Manual Tune

The television can be tuned-in manually using **Manual tuning**. For example: if the television cannot be connected to a media recorder/decoder with a SCART lead or to tune-in a station on another **System**.

Use ◀ and ▶ to move across the screen and select any of these Manual Tune options.



Programme : The number to be pressed on the remote control.

System : Specific to certain areas.

Colour system : Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.

Programme skip : 👁 means nothing has been stored or the facility to skip the channel is ON.

Channel : The channel number on which a station is being broadcast.

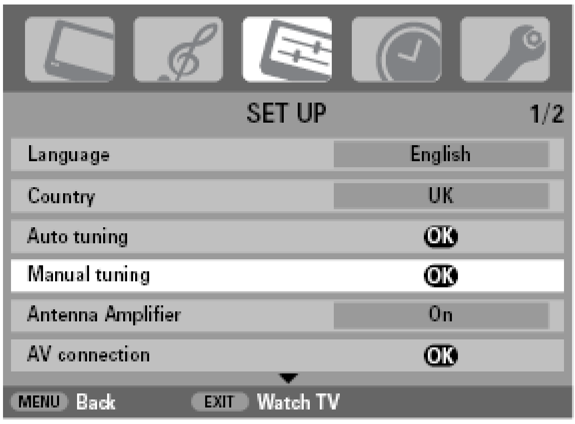
Search : Search up and down for a signal.

Manual fine tuning : Only used if interference/weak signal is experienced.

Station : Station identification. Use the ▲ or ▼ and ◀ or ▶ buttons to enter up to seven characters.

To allocate a programme position on the television for a decoder and media recorder: turn the decoder on, insert a pre-recorded film in the media recorder and press PLAY, then manually tune.

1. Press **MENU** and using ◄ or ► select the **SET UP** menu, with ▼ highlight **Manual tuning**, press **OK** to select.

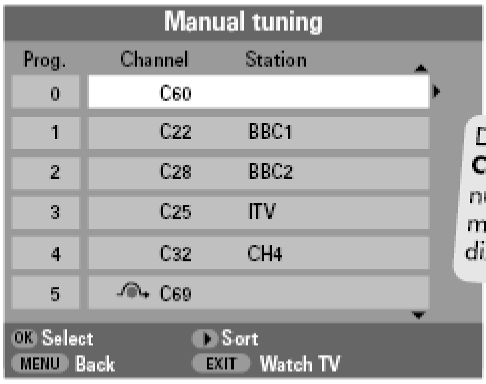


SET UP 1/2

Language	English
Country	UK
Auto tuning	OK
Manual tuning	OK
Antenna Amplifier	On
AV connection	OK

MENU Back
EXIT Watch TV

2. Use ▲ or ▼ to highlight the programme position required e.g. we suggest ***Prog. 0*** for a media recorder.



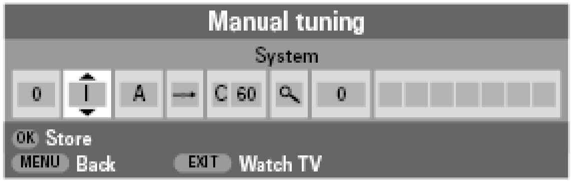
Manual tuning

Prog.	Channel	Station
0	C60	
1	C22	BBC1
2	C28	BBC2
3	C25	ITV
4	C32	CH4
5	C69	

OK Select
Sort
MENU Back
EXIT Watch TV

Different **Channel** numbers may be displayed

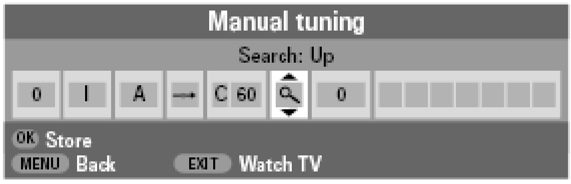
3. Press **OK** to select. If the programme is skipped, **Programme skip** must be removed before storing.


Manual tuning
System
0
I
A
C 60
0
OK Store
MENU Back
EXIT Watch TV

4. Press ▶ to select **System** and use ▲ or ▼ to change if required.

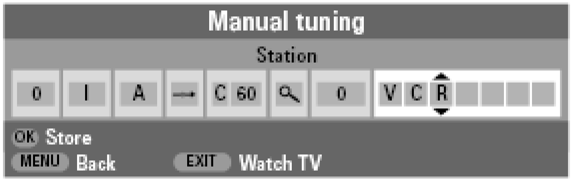
5. Then press ▶ to select **Search**.

6. Press ▲ or ▼ to begin the search. The search symbol will flash.


Manual tuning
Search: Up
0
I
A
C 60
0
OK Store
MENU Back
EXIT Watch TV

7. Each signal will show on the television, if it is not your media recorder, press ▲ or ▼ again to restart the search.

8 When your media recorder signal is found, press ▶ to move along to **Station**. With ▲, ▼, ◀ and ▶ put in the required characters, e.g. **VCR**.



Manual tuning

Station

0 | I | A | → | C 60 | 🔍 | 0 | V C R

OK Store

MENU Back   EXIT Watch TV

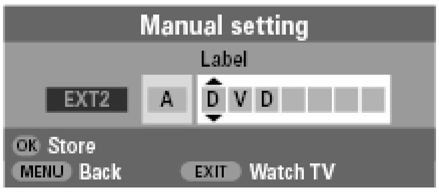
9 Press **OK** to store.

10 Repeat for each ***programme position*** you want to tune or, press **MENU** to return to the list of channels and select the next number to tune.

11 Press **EXIT** when you have finished.

12 To name external equipment, e.g. DVD on EXT2, press ⊕ to select ⊕**2**, then select **Manual setting** from the **SET UP** menu.

13 Press ▶ to select **Label** then using ▲, ▼, ◀ and ▶ put in the required characters. Press **OK**.



Manual setting

Label

EXT2 | A | D V D

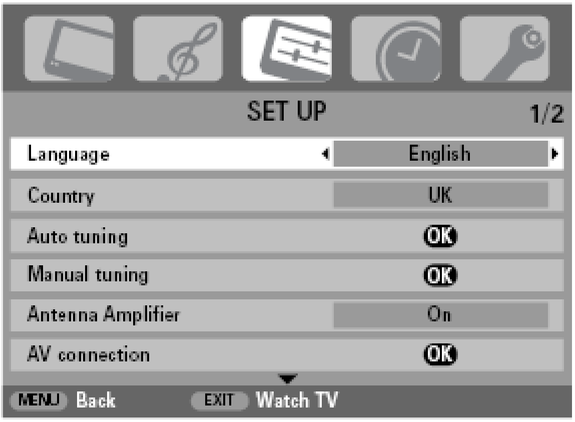
OK Store

MENU Back   EXIT Watch TV

PLEASE NOTE This television has direct channel entry if the channel numbers are known. Select the **Manual tuning** screen in ***Step 3***. Enter the **Programme number**, the **System**, then **C** for standard (terrestrial) channels or **S** for cable channels and the **Channel** number. Press **OK** to store.

Using Auto Tuning

1. To set up the television using **Auto tuning**, press **MENU** and use ◀ or ▶ to select the **SET UP** menu.

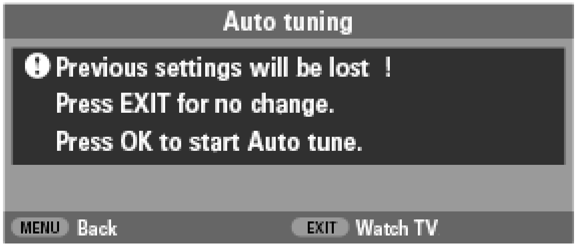


Language ◀ English ▶
Country UK
Auto tuning OK
Manual tuning OK
Antenna Amplifier On
AV connection OK

2. Press ▼ to highlight **Language** and ◀ or ▶ to select.

3. Using ▼ highlight **Country**, then ◀ or ▶ to select. The television will now tune the stations for your country.

4. Press ▼ to highlight **Auto tuning**, then press **OK**.



Previous settings will be lost !
Press EXIT for no change.
Press OK to start Auto tune.

5. To start **Auto tuning** press **OK**.

You must allow the television to complete the search.

When the search is complete the television will automatically select programme position 1. This may not be a clear picture, so the station order can be changed.

SPECIFICATION

DVB-T Broadcast systems/channels

UK	UHF 21-68
France	VHF 05-10 (VHF 01-05) UHF 21-69
Germany	VHF 05-12 UHF 21-69
Swiss	VHF 05-12 UHF 21-69
Italy	VHF 05-12 (D,E,F,G,H,H1,H2) UHF 21-69
Spain	UHF 21-69

Broadcast systems/channels

PAL-I	UHF UK21-UK69
PAL-B/G	UHF E21-E69 VHF E2-E12, S1-S41
SECAM-L	UHF F21-F69 VHF F1-F10, B-Q
SECAM-D/K	UHF R21-R69 VHF R1-R12

Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

EXT1	Input/Output	21-pin SCART	RGB, A/V Selectable output
EXT2	Input/Output	21-pin SCART	A/V, S-video Selectable output
EXT3	Input	Phono jacks Phono jacks	Y, P_B/C_B, P_R/C_R A/V
EXT3	Input (Side)	Phono jack Phono jacks	Video Audio L + R
HDMI 1/2	Input	HDMI™ (1080p, LIP SYNC)	
PC	Input	Mini D-sub 15-pin	Analog RGB signal
PC/HDMI1 Audio		Phono jacks	Audio L + R
Digital Audio Output (S/PDIF)		Optical	
Output to Active Super Woofer		Phono jack	
Fixed Audio Output		Phono jacks	Audio L + R

Stereo		Nicam	
		2 carrier system	
Visible Screen Size	Model	32	80cm
(approx.)		37	94cm
		42	107cm
Display		16:9	
Sound output (at 10% distortion)		Main	10W + 10W
Power consumption	Model	32	154W
as specified in		37	190W
EN60107-1 : 1997		42	241W
Standby (approx.)	Model	32	<1W
		37	<1W
		42	<1W
Dimensions	Model	32	60cm (H) 80cm (W) 29cm (D)
(approx.)		37	67cm (H) 92cm (W) 29cm (D
		42	73cm (H) 103cm (W) 34cm (D)
		(Height dimension includes foot stand)	
Weight (approx.)	Model	32	18kg
		37	22kg
		42	27.5kg
Headphone socket		3.5mm stereo	
Accessories		Remote control	
		2 batteries	
		(AAA, IEC R03 1.5V)	